

A01K

ANIMAL HUSBANDRY; CARE OF BIRDS, FISHES, INSECTS; FISHING; REARING OR BREEDING ANIMALS, NOT OTHERWISE PROVIDED FOR; NEW BREEDS OF ANIMALS

A01K 1/00

Housing animals; Equipment therefor (building construction, features of buildings E04; ventilating buildings [F24F](#))

Definition statement

This subclass/group covers:

Stable buildings and structural details therefore.

Shelters for animal other than pets.

Shelter and stables, may be transportable.

Partition walls and -grids may be incorporated.

Stables and shelters may comprise various installations, e.g. feeders, computer/ registration-systems, ventilation systems etc.

Movable animal enclosure, may be part of stable.

Wildlife homes, self-sustaining wildlife habitat sanctuary.

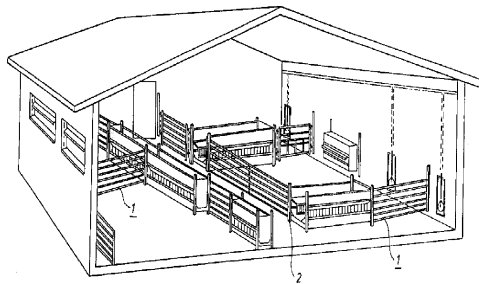


Fig.1

Informative references

Attention is drawn to the following places, which may be of interest for search:

Stable partitions.	A01K 1/0005
Air-conditioning, e.g. ventilation, of animal housings.	A01K 1/0047 , F24F
Pigsties; Dog-kennels;	A01K 1/02 , A01K 1/03

Rabbit-hutches or the like.	
Milking stations.	A01K 1/12
Housing birds.	A01K 31/00
Pasturing equipment, e.g. tethering devices, Grids for...	A01K 3/00
Housing for domestic or laboratory animals.	A01K 1/03
Buildings or groups of agricultural purpose.	E04H 5/08

A01K 1/0005

[N: Stable partitions (devices for fastening animals [A01K 1/06](#); pasturing enclosures [A01K 3/00](#))]

Definition statement

This subclass/group covers:

Means for dividing stable room and/or limiting animal space.

Partitions; grids; box dividers; barriers.

Partitions etc. may be movable, existing of different materials and/or electrified.

Different ways of fastening partitions, e.g. yokes.

Doors (on or in stables); their actuation.

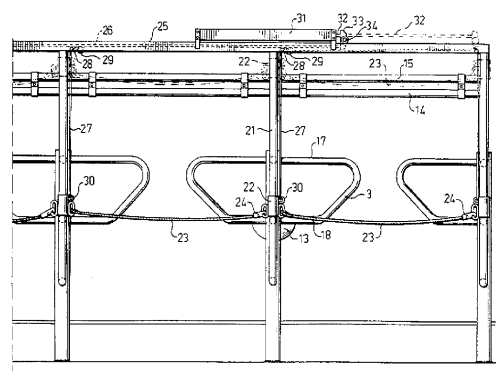
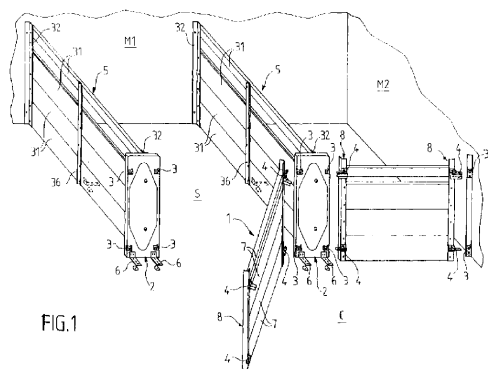
Doors, partitions etc. may serve for guiding or driving e.g. crowd gates, or for starting rodeos.

(Prefabricated) boxes which can serve as independent quarters, within stables.

Partitions may include ground-borne barriers such as thresholds.

Barriers controlling access to feeders

Separation possibilities between liquid/ solid manure.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Housing animal; Equipment therefor	A01K 1/00
Pigsties; Dog-kennels; Rabbit-hutches or the like	A01K 1/02
Feeding pens for pigs or cattle	A01K 1/0209
Devices for use in keeping domestic animals, e.g. fittings	A01K 1/035
Devices for immobilisation or restraint of animals, e.g. chutes	A01K 1/0613
Milking station	A01K 1/12
Pasturing equipment, e.g. tethering devices; Grids for...	A01K 3/00
Feed troughs; Feed pails	A01K 5/01
Slaughtering pens	A22B 5/02

Race or rodeo starting gates or boxes...	A63K
Serving doors; Passing-through doors, (Pet doors)	E06B 7/32

A01K 1/0011

[N: Cubicle partitions]

Definition statement

This subclass/group covers:

A fence for laterally partitioning, forming cubicle partitions in a stable.

Divider may consist of single bent tube or more partitions. (mushroom-shape)

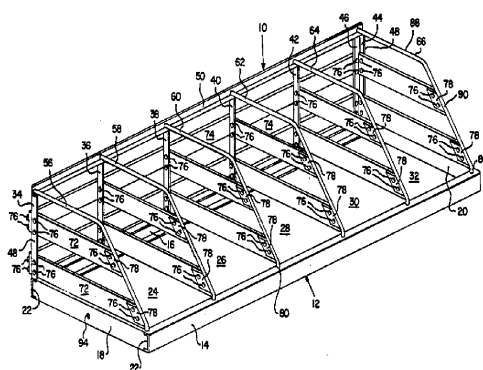
A cubicle partition may comprise at least one standing pipe, or a footles cubicle partition.

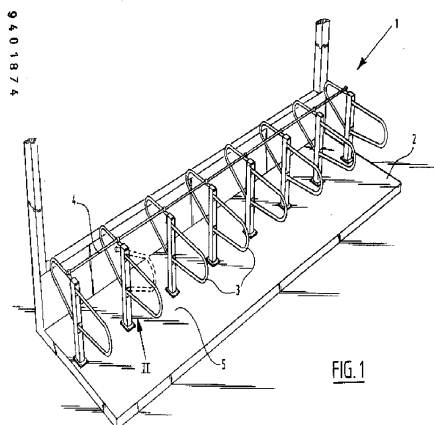
Partitions may be movable e.g. by rails.

Gate assembly for an animal enclosure such as milking parlour.

Box installations which are adjustable between an operative and an inoperative position in or to a stable.

Different ways for coupling the fence.





A01K 1/0017

[N: Gates, doors]

Definition statement

This subclass/group covers:

Gates, may be used as a fence and/or have a bumper system.

Gates may be extendible, e.g. have an adjustable frame.

Non-return gates, e.g. guillotine gate, tailgate.

Sheep control means, may comprise a workstation and/or a race and/or a drafting gate.

Doors may be automatically closing swing doors etc.

Device for prevent livestock passing through an open gate. (e.g. battery operated).

Hinge lock for animal gates, may have a releasable hinge mechanism.

Gate assembly for milking parlour, may be automatic.(e.g. trough rotating turnstile)

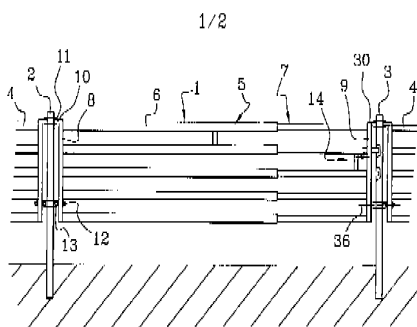
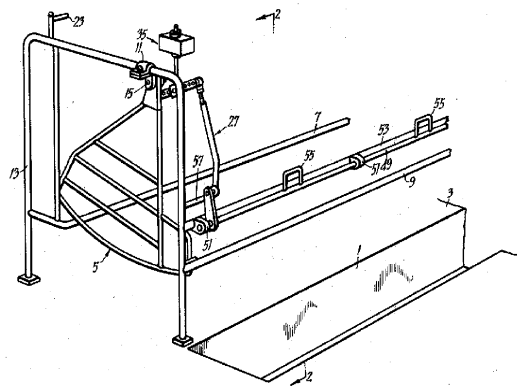


Fig. 1

A01K 1/0023

[N: Sorting gates]

Definition statement

This subclass/group covers:

Sorting gates:

- may include an alley comprising an entrance, a main exit and a sorting exit.
- may be adjustable.
- may enable sorting according to weight, size, etc.
- may contain a selective electronic confinement system, infra-red detector etc.

e.g. turnstile-type gate, swing-gate.

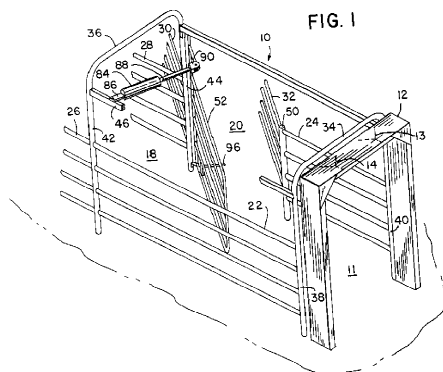
Livestock trap and sorter.

Gates may be adjustable, may include an opening e.g. for pedestrians.

Separating lactating animals in automatic milking installations by means of

identification gates, switchable gates, enticement etc.

Feeding device for selective feeding cattle.



A01K 1/0029

[N: Crowding gates or barriers]

Definition statement

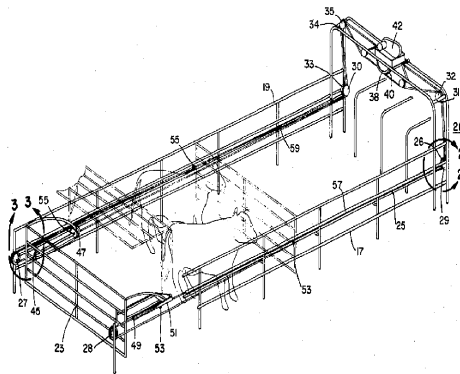
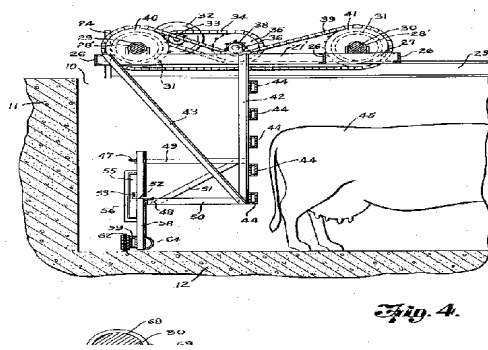
This subclass/group covers:

Crowding gates or barriers:

- may be foldable
- may be attachable to wall/ fence, etc.
- may be moved along a rails/ endless chain, etc.
- may be electrified.

Assemblies for driving cattle along a route:

- by means of a tailgate, mover member etc.
- Animal catching and carrying devices.
- For feeding control systems e.g. an electrified barrier.
- Barrier for preventing passage of livestock.



A01K 1/0047

[N: Airconditioning, e.g. ventilation of animal housing]

Definition statement

This subclass/group covers:

Means for heating, cooling, ventilating, drying or humidifying stable rooms in general.

Method and system for disbursing ozone into a stable room e.g. deduction in flies, odour, dust etc.

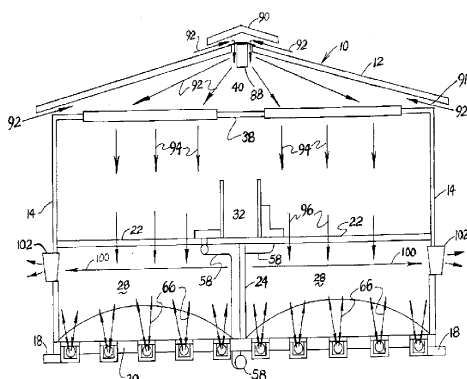
Climate and ventilation control means, e.g. alarm system, responsive timer, etc.

Means of cleaning waste air:

- may use filtering devices, remove dust, odours, ammonia etc.
- may add pre-coated material, e.g. coke dust, lime dust.
- may add disinfectants.

Methods for influencing and determining the airflow, e.g. metal panels.

Specially adapted details, e.g. roof lids, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Floor coverings, e.g. bedding-down sheets.	A01K 1/015
Pigsties; Dog-kennels; Rabbit-hutches or the like.	A01K 1/02
Poultry house ventilation	A01K 31/00
Corresponding means for specific animal housing	A01K 31/17
Purposes	A01K 31/18
Incubators for poultry	A01K 41/00
Heating buildings	F24D
Ventilating buildings.	F24F

A01K 1/0052

[N: Arrangement of fans or blowers]

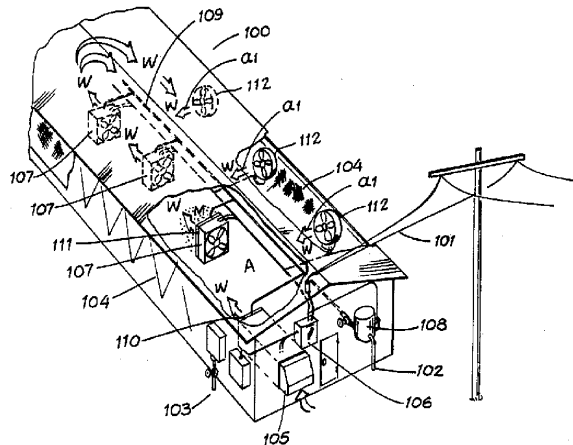
Definition statement

This subclass/group covers:

Fans or blowers, for use in stable rooms in general.

- may be movable.
- may be placed in rows or back to back etc.
- may have variable speed control.
- may have cooling system, mist generator etc. included.

Wind diverters for fans and blowers.



A01K 1/0058

[N: Construction of air inlets or outlets in roofs]

Definition statement

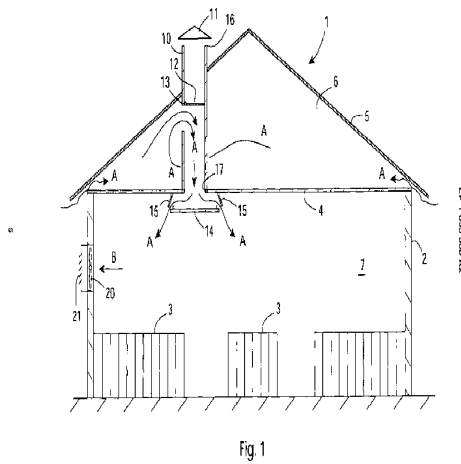
This subclass/group covers:

Construction of air inlets or outlets in roofs, e.g. fans and ducts etc.

- may include evaporative coolers, ionizing apparatus, heat exchanging system, etc.

Methods of controlling ventilation in roofs.

Ventilation ceiling and panels therefor.



A01K 1/0064

[N: Construction of air inlets or outlets in walls]

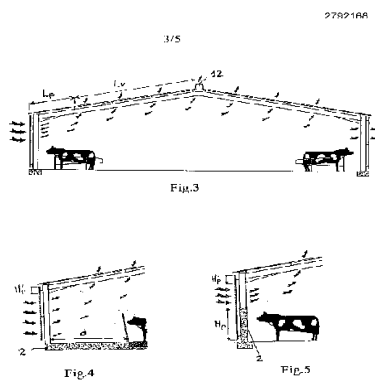
Definition statement

This subclass/group covers:

Construction of air inlets or outlets in walls.

- by means of sheet metal panels with vents, ventilators, valves etc.

Ventilating system may be responsive to temperature, may be able to control humidity and movement of forced air etc.



A01K 1/007

[N: Construction of air inlets or outlets in walls]

Definition statement

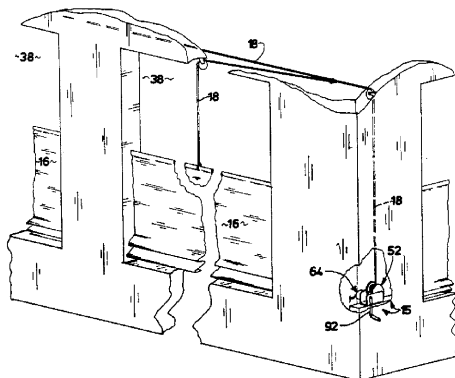
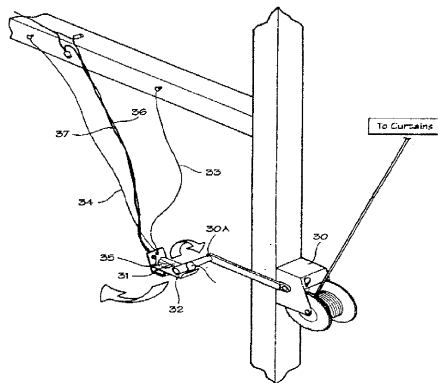
This subclass/group covers:

Arrangement of curtain systems.

- may include selvedge reinforcement.
- may include curtain control system.

Automatic curtain systems with ventilation monitoring, control, alarm and auto-release systems.

Blinds.



A01K 1/0076

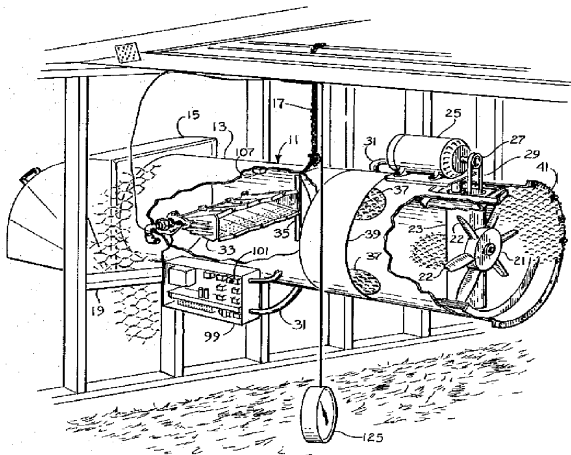
[N: Arrangement of heaters or heat exchangers]

Definition statement

This subclass/group covers:

Heating devices for a stall and method for operating the same. May include:

- control device
- one or more radiating elements
- energy exchange unit
- air control flow
- air cleaning systems etc.
- Heating devices may be energy saving
- Ventilation heat recovery systems
- Climate control systems



A01K 1/0082

[N: Water misting or cooling systems]

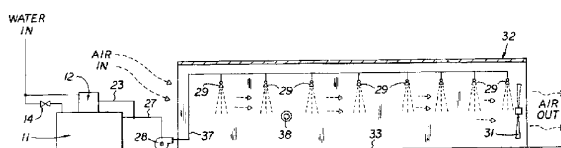
Definition statement

This subclass/group covers:

Cooling station for animals, may be automatic. By means of liquid and air flow.

Evaporative cooling system e.g. fan guard mounted mister.

Cleaning waste air, e.g. by means of adding pre-coated material or water spray.



A01K 1/01

Removal of dung or urine, [N: e.g. from stables] ([A01K 1/015](#) takes precedence; [N: from poultry houses [A01K 31/04](#)])

Definition statement

This subclass/group covers:

Collecting solid or liquid manure in stables, by any means, e.g. waste treatment bags, composting box, (liquid) manure tank etc.

Device for removing manure from animal stalls, e.g. bedding fork, scraper.

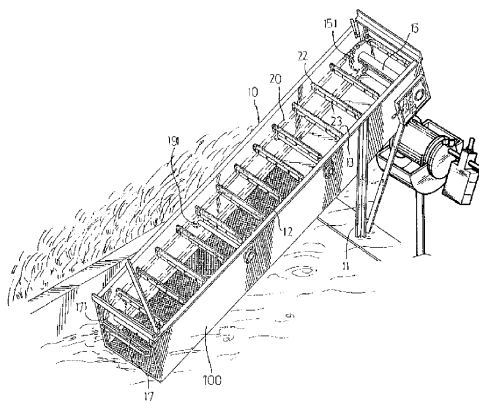
Device may be automatic, e.g. vehicle.

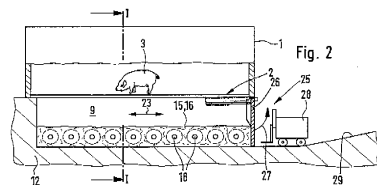
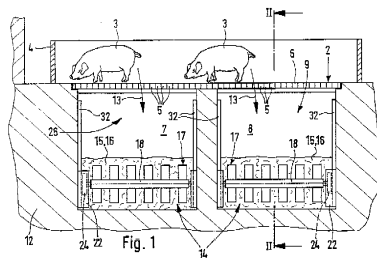
Device for transporting manure.

Bedding removal and refilling system for animal cages.

Treatment of manure, drying, heating, cooling, deodorizing.

Details of channels or (slatted) floors.





Informative references

Attention is drawn to the following places, which may be of interest for search:

Stable partitions	A01K 1/0005
Cat trays; Dog urinals; Toilets for pets	A01K 1/0107
Floor coverings, e.g. bedding-down sheets	A01K 1/015
Litter	A01K 1/0152
Devices for use in keeping domestic animals	A01K 1/035
Dropping boards	A01K 31/04
Laying batteries	A01K 31/17
Poultry runs	A01K 31/22
Pumps	F04C
Snow ploughs	E01H 5/06
Obtaining proteins from animal waste	A23J 1/00
Treating manure.	A01C 3/02

A01K 1/0103

[N: of liquid manure (treating manure [A01C 3/00](#); treatment of water, waste water, sewage or sludge [C02F](#))]

Definition statement

This subclass/group covers:

Stables and apparatus for collecting liquid animal manure, e.g. collection pit, tank etc.

- may have arrangements for reducing ammonia emission.
- may be transportable.
- may include hydro flushing installations.

Details like dung channel, inlet valve etc.

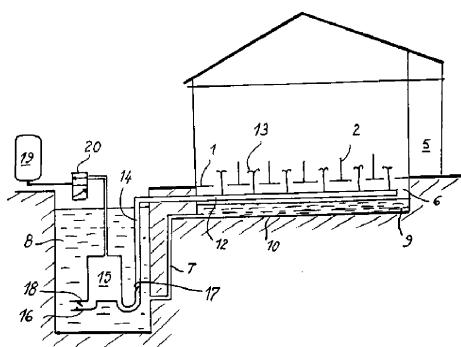
Treatment of liquid manure, e.g. heating, cooling, deodorization, etc.

Different ways of converting liquid animal waste.

Devices and methods for cleaning stable floor.

- may be automatic.

Apparatus for disposal or cleaning of waste-water.



A01K 1/0107

[N: Cat trays, Dog urinals, Toilets for pets]

Definition statement

This subclass/group covers:

Indoors or outdoors toilets for pets.

Cat litter box, may be portable, disposable.

- may include ventilation, filter system etc.
- may include magnetic pet litter system.

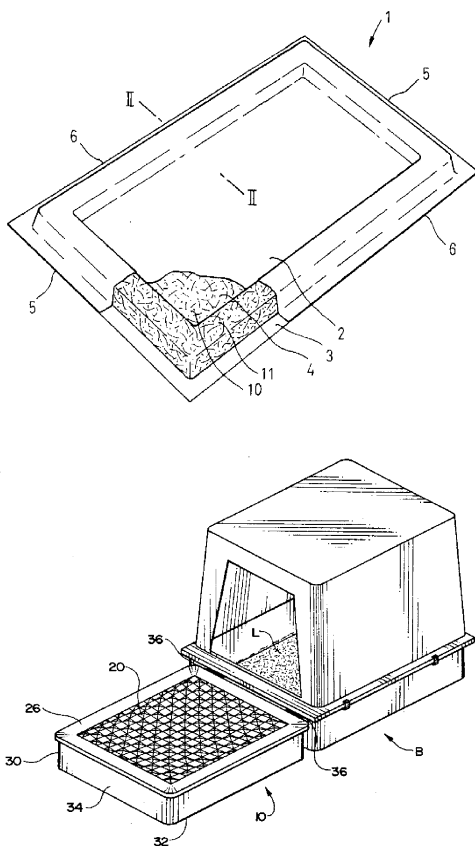
Ready-made fillings for such toilets, may be for independent use.

Toilets may have flushing means, adaptations for human toilets, disinfection means, etc.

Paw-cleaning litter mat.

Pet-sheet, may be absorbing, impregnated with perfume, deodorant, disinfectant, pesticide etc.

Device for training animals to use toilets.



A01K 1/011

[N: With means for removing excrement]

Definition statement

This subclass/group covers:

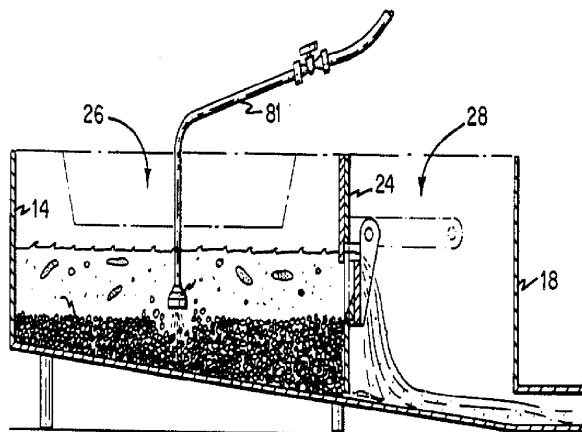
In and outdoor toilets for pets, with automatic waste removal, by means of flushing, raking, etc.

may be connected to water supply, electric supply and to drains, e.g. household drains.

- may be litter-free, or using water soluble litter etc.
- may be movable.
- may have appliances for washing the pet.
- may include lavatory facility for toilet training.

Sanitizing apparatus for pet litter box, may have controllable temperature.

Sewerage device intended for domestic animals, cleaning device therefore.



A01K 1/0114

[N: Litter boxes with screens for separating excrements from litter]

Definition statement

This subclass/group covers:

Litter box may be portable.

Litter box may be disposable and may have litter included.

A litter box may contain a litter tray apparatus that collects particles of litter scattered from the paws.

The excrement may be separated by sifting, by means of:

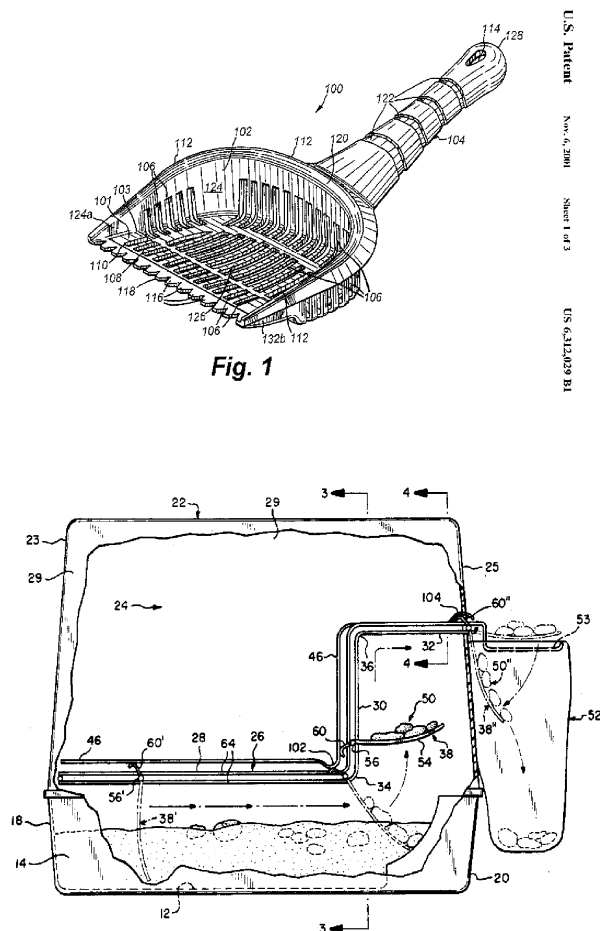
- rotating the Litter box.
- a removable screen in corner of box.
- lifting a reticulated structure from under the litter.
- multiple layers of screens, etc.

Automated self-cleaning litter box:

- by means of rake, comb, scoop, rotating auger etc.
- may be direct responsive to the exit of a cat.
- may include a rotatable enclosure.

Animal waste dispose apparatus by means of sifting.

Scoop for pet litter.



U.S. Patent No. 6,300,300 Sheet 1 of 3 US 6,312,029 B1

A01K 1/0117

[N: With conveying belts for removing excrements]

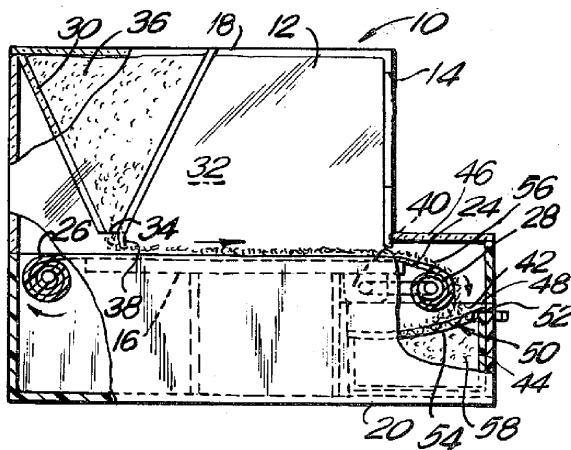
Definition statement

This subclass/group covers:

Pet toilets or cages with waste disposal system, by means of endless belts, a hopper, etc.

May include a washing device, or adjustable litter supply.

May be portable.



A01K 1/0121

[N: Adapted to fit on conventional toilets]

Definition statement

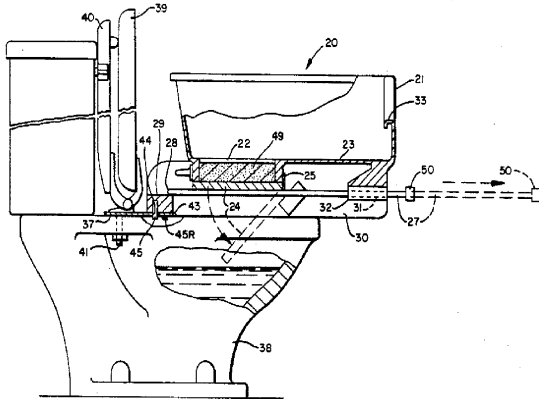
This subclass/group covers:

Animal toilet adapted to fit on conventional toilets.

By means of adjustable toilet seat e.g. shelf segments, etc.

Litter box may be mountable on toilet.

- may use flushable litter;
- may include apparatus for training pets to use human toilet.



A01K 1/0125

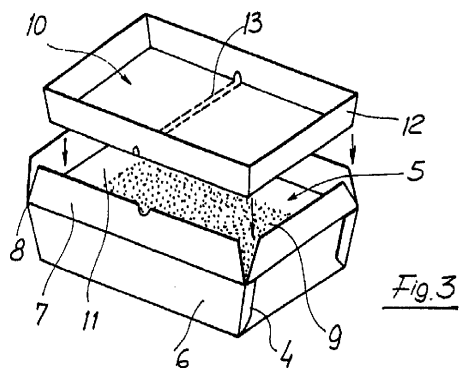
[N: Foldable or collapsible litter boxes]

Definition statement

This subclass/group covers:

Foldable or collapsible litter boxes:

- may be (partly) disposable or made out of one piece.
- may be pre-filled with litter.
- may be lightweight, biodegradable etc.
- may contain deodorization, flea repellent material etc.



A01K 1/0128

[N: By means of scrapers or the like moving continuously]

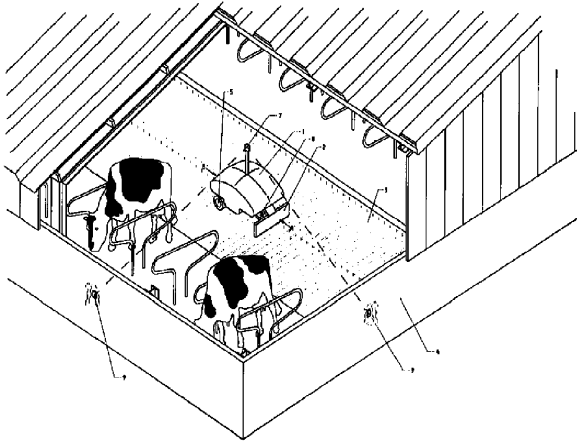
Definition statement

This subclass/group covers:

Barn and pit floor scrapers and details therefore, e.g. coupling etc.

may be attachable to a conventional vehicle, e.g. tractor etc.

Component structures, e.g. scraper blades.



A01K 1/0132

[N: By means of scrapers of the like moving to and fro or step by step]

Definition statement

This subclass/group covers:

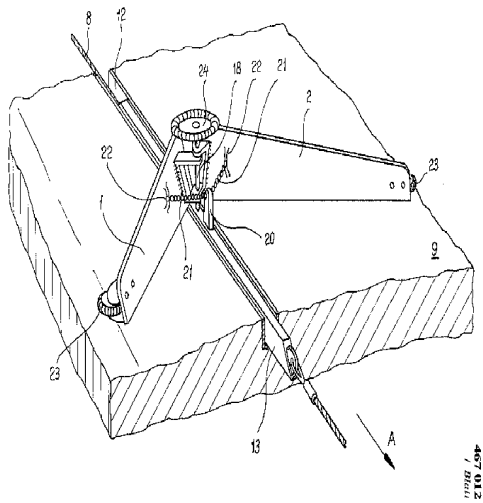
Scrapers or the like moving to-and-fro or step-by-step.

details therefor e.g. blades, hinge flap side etc.

may operate by means of a shoe, friction type mechanism etc.

Drive system for scraper, e.g. rails, continuous cable etc.

Scraper may be used on stable floor or pit.



A01K 1/0135

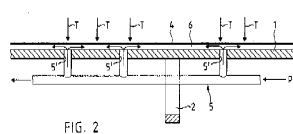
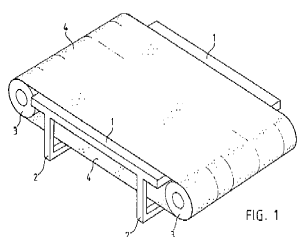
[N: By means of conveyer belts]

Definition statement

This subclass/group covers:

Manure removal by means of conveyer belts.

details therefor e.g. rolling-up device, use of non-sticking material, etc.



A01K 1/0139

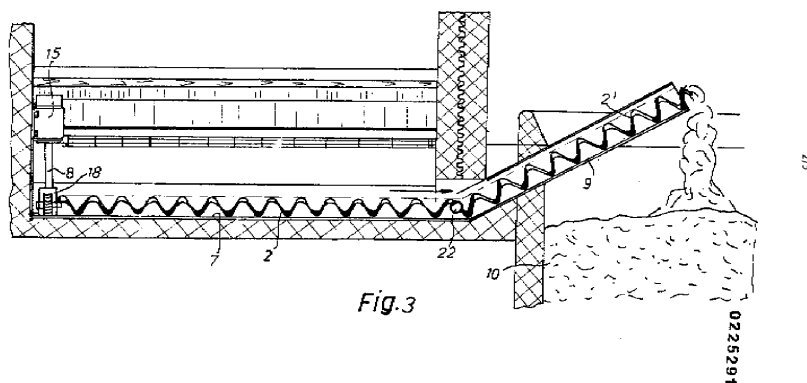
[N: By means of screw conveyers]

Definition statement

This subclass/group covers:

Manure removal by means of screw conveyers, e.g. a worm conveyor, etc.

Details therefor e.g. a dung-collector-conveyer part, etc.



A01K 1/0142

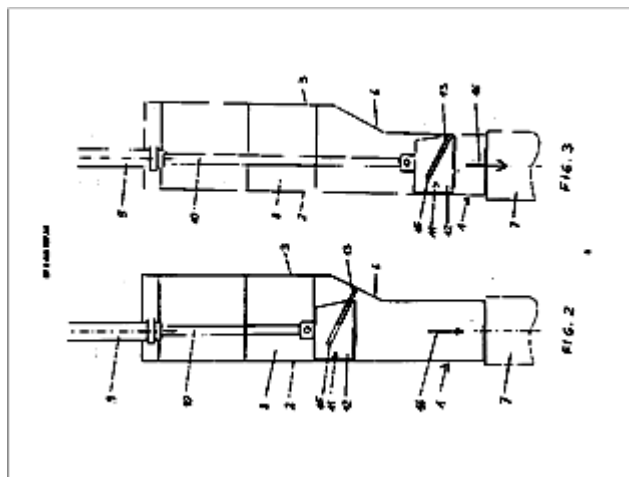
[N: by means of a moving piston]

Definition statement

This subclass/group covers:

Apparatus for conveying manure, e.g. manure transfer system.

- may include a pressure operated manure evacuation device, e.g. pressure chamber, etc.
- may include a manure pump, e.g. ram-type pump, manure transfer pump, etc.



A01K 1/0146

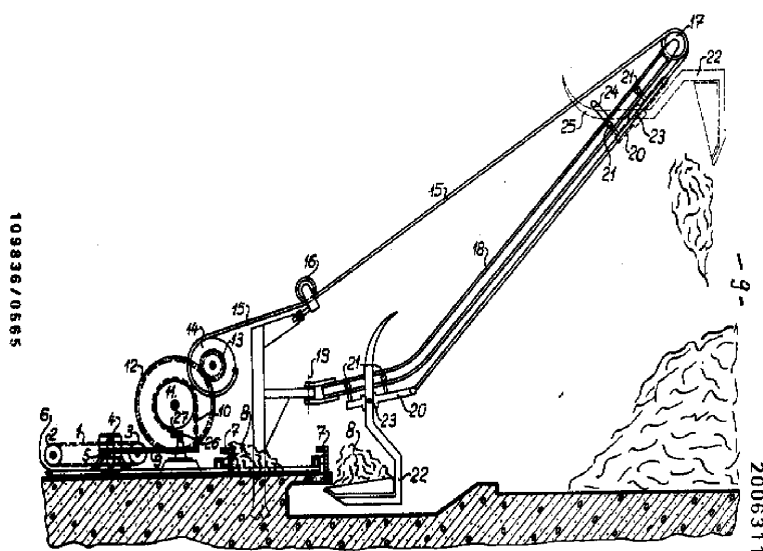
[N: By means of manure-loaders, manure-ramps or manure-elevators associated with in-house removal systems (independent manure-loaders [A01C 3/04](#))]

Definition statement

This subclass/group covers:

Manure removal, by means of manure-loaders, manure-ramps or manure-elevators.

details therefor, e.g. manure lifter with a carrying fork, etc.



45 b 3-04 A2: 12.02.1970 OF: 02.02.1971

A01K 1/015

Floor coverings, e.g. bedding-down sheets; [N: Stable floors (for poultry cages [A01K 31/007](#))]

Definition statement

This subclass/group covers:

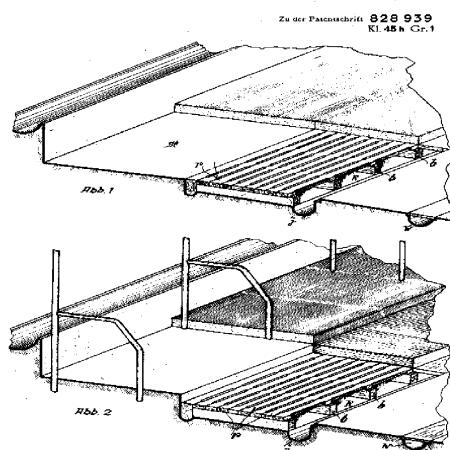
Floors for stables or shelters, or their element.

Mats, beddings and other coverings for floors.

- may include a heating device, e.g. heating pads for small animals, etc.
- may include a drainage device.
- may contain zeolites.

Spreading devices for animal bedding material.

- may be automatic.



DE-C-828939

Informative references

Attention is drawn to the following places, which may be of interest for search:

Housing animals; Equipment therefor.	A01K 1/00
Removal of dung or urine.	A01K 1/01
Pasturing equipment, e.g. tethering devices; Grids for...	A01K 3/002

Floors for poultry housings	A01K31/00G
Heating arrangements.	A01K 31/20
Arrangements for heating or lighting in, or attached to...	A01K 63/06
Gratings; Grid-like panels.	E04C 2/42
Heating systems.	F24D

A01K 1/0151

[N: Grids, Gratings, Slatted floors]

Definition statement

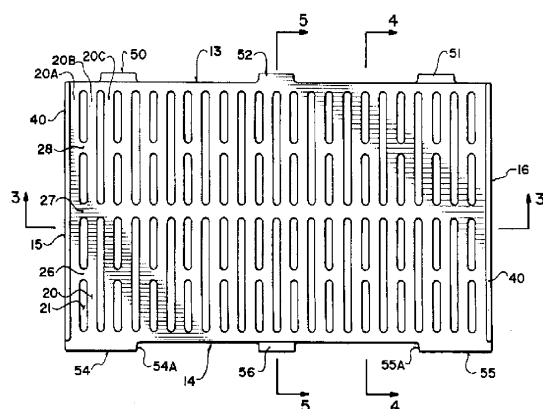
This subclass/group covers:

Floors for stables and shelters, like grids, gratings and slatted floors.

may comprise heating device.

Details therefor, e.g. attached rubber tiles, ribbed floor, anti-slip, etc.

Attachment means for floors, e.g. locking and fastening elements, etc.



A01K 1/0152

[N: Litter]

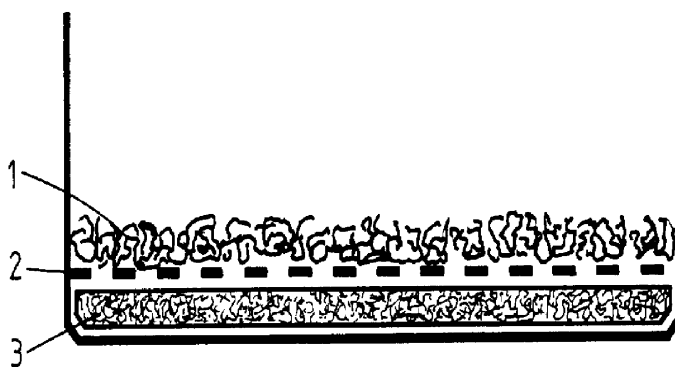
Definition statement

This subclass/group covers:

Litter or sheets for use in animal stables, cages, etc.

- may be absorbent, deodorizing, dominating smells, insect repelling, biodegradable, dustless, coated, etc.
- may contain zeolites, sawdust, disinfecting substances, etc.
- may contain material for detecting infections.

Means and apparatus for making litter.



A01K 1/0154

[N: Comprising inorganic material]

Definition statement

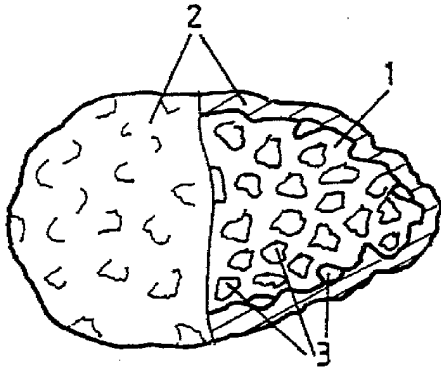
This subclass/group covers:

Litter comprising inorganic material, e.g. deodorants, insect repelling material, dyed, ph-indicating material, etc.

Litter may be absorbent, dust reducing, odour-inhibiting, etc.

Litter may comprise clay, gypsum, aluminium sulfate, material for detecting infections, etc.

Different means of processing litter.



A01K 1/0155

[N: Comprising organic material]

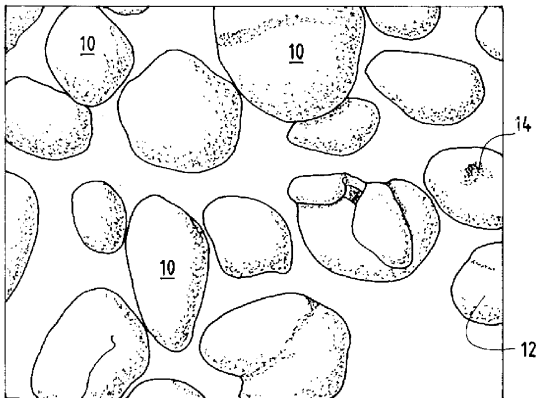
Definition statement

This subclass/group covers:

Litter comprising organic material, e.g. (recycled) paper, wood, straw, etc.

Litter may be absorbing, clump able, dust reducing etc.

Methods for producing litter.



A01K 1/0157

[N: Mats, sheets]

Definition statement

This subclass/group covers:

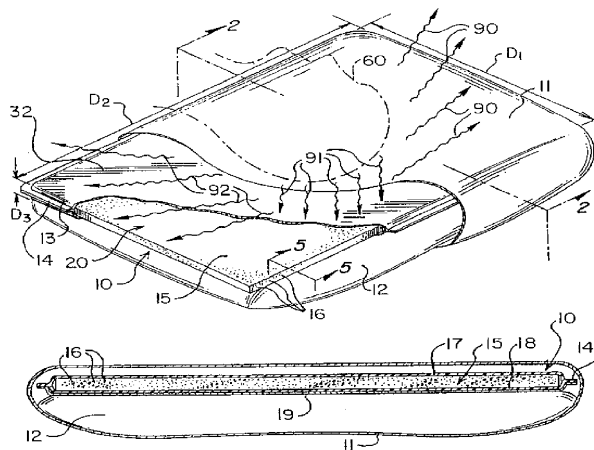
Mats and pet-sheets for use in animal stables or cages.

- may be absorbing liquid, odour adsorbing, e.g. liquid permeable top sheet, etc.

- may be moisture proof, washable, etc.
- may contain disinfectant etc.

Devices for cleaning cat's paws, e.g. magnetic pet litter system.

Floor covering for animal stables, may be suitable for covering floor/walls, e.g. animal mattress.



A01K 1/0158

[N: Floor heating or cooling systems]

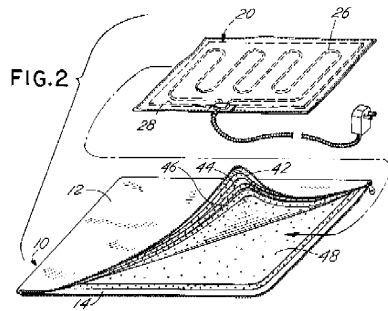
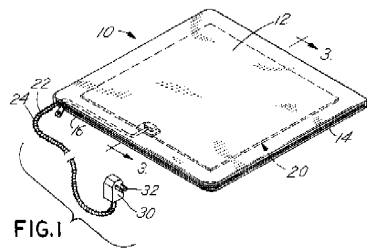
Definition statement

This subclass/group covers:

Floor heating or cooling systems for in animal stables.

Details therefor, e.g. heating tube, etc.

Heating or cooling may be accomplished by means of electrical heating units, water, etc.



A01K 1/02

[N: Pigsties; Dog-kennels; Rabbit-hutches or the like]

Definition statement

This subclass/group covers:

This subclass/group covers:

Farrowing pens and attachments.

Hog- or sheep shelters and -shades.

Calf boxes.

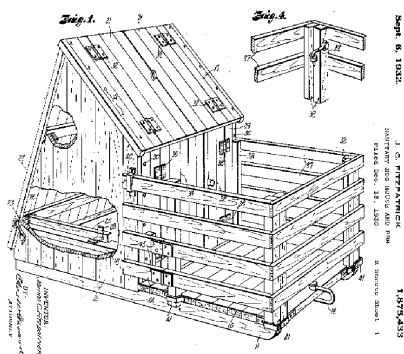
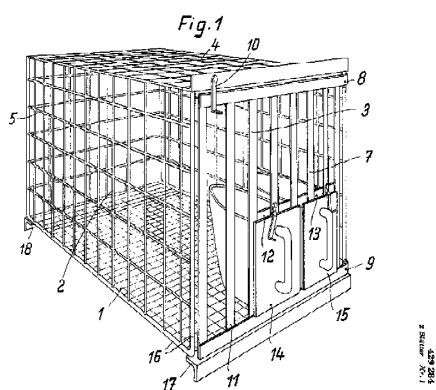
(Battery-) cages for piglets.

Pen buildings for hogs or sheep, if specially adapted therefor.

(Transport-) crates for pigs.

Details therefore, e.g. heating, ventilation, feeding system, etc.

Buildings may be movable, pre-fabricated, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Housing animals; Equipment therefor	A01K 1/00
Stables partitions	A01K 1/0005
Air-conditioning, e.g. ventilation, of animal housings	A01K 1/0047
Floor coverings, e.g. bedding-down sheets	A01K 1/015
Feeding pens for pigs or cattle.	A01K 1/0209
Devices for use in keeping domestic animals	A01K 1/035

Brooders	A01K31/15
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A01K 1/0209

[N: Feeding pens for pigs or cattle]

Definition statement

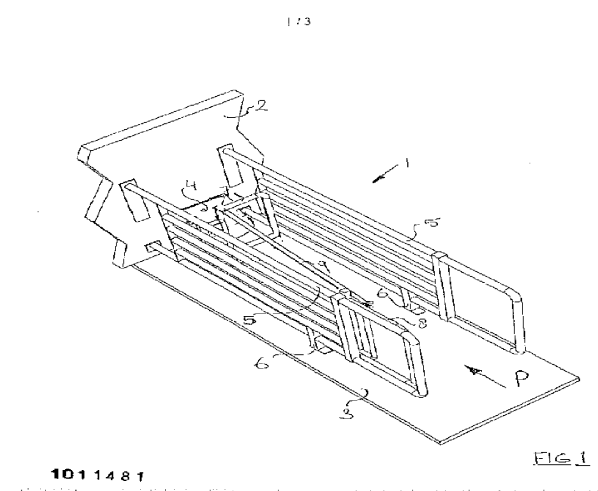
This subclass/group covers:

Box-like confinements (normally for 1 animal) for ensuring mostly undisturbed feeding or drinking of an animal.

may include an identifying system, a balance, etc.

Closure/ opening of the box may be automatic.

Boxes may be transportable.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Stable partitions.	A01K 1/0005
Feeding or drinking devices associated with cages.	A01K 1/0356
Devices for immobilisation or restraint of animals...	A01K 1/0613
Milking stations.	A01K 1/12

Pasturing equipment, e.g. tethering devices. Grids for...	A01K 3/00
Feed troughs; feed pails.	A01K 5/01
Automatic identification systems for animals.	A01K 11/006

A01K 1/0218

[N: Farrowing or weaning crates]

Definition statement

This subclass/group covers:

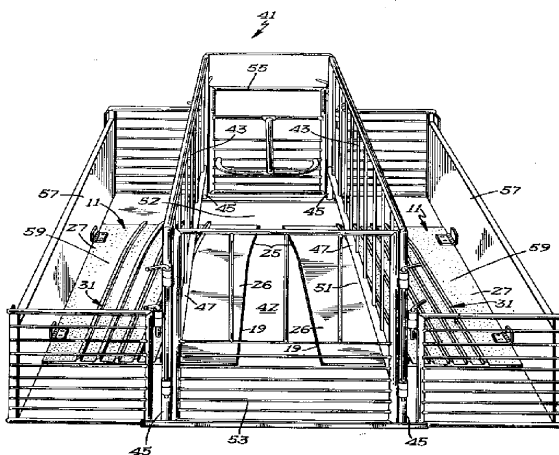
Farrowing or weaning crates, mostly for pigs.

Details therefor, e.g. mats, side walls, piglet knee protector, etc.

Crates may include a heating device, registration device, etc.

Crates may be adjustable, collapsible, movable, etc.

Devices for preventing the sow to lie on the piglets.



A01K 1/0227

[N: Battery cages for piglets]

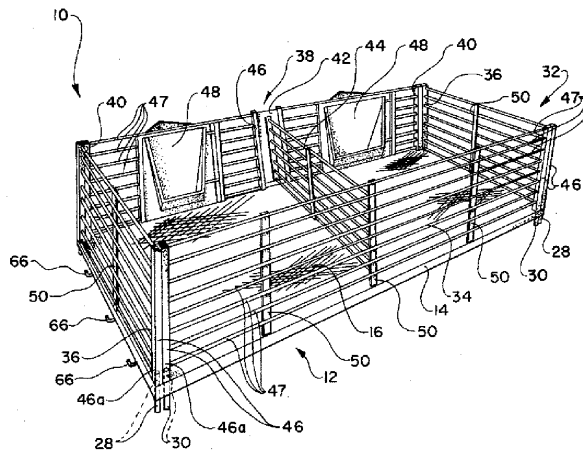
Definition statement

This subclass/group covers:

Method and apparatus for rearing pigs in cages.

Battery cages may be adjustable in size, movable, collapsible, etc.

Battery cages may include heating, ventilation and/or feeding systems, etc.



A01K 1/0236

[N: Transport boxes, cases or baskets for animals; fittings therefor]

Definition statement

This subclass/group covers:

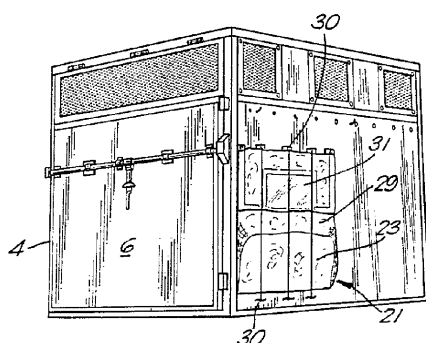
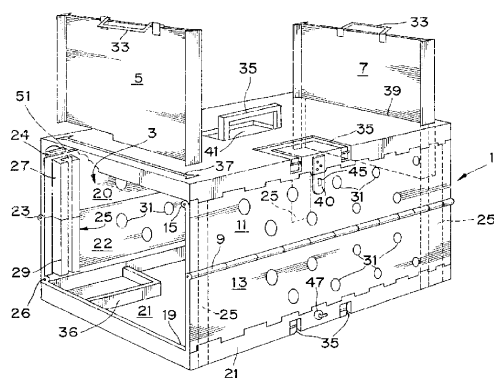
Transportation box for pets:

- may be collapsible, demountable.
- may be suitable for accommodation of animals.
- may have fastening means for mounting on a car seat.
- may be worn by user.

Harness/Restraining system for animals, may be attachable to seatbelt system.

Containment apparatus:

- may be suitable for transportation; shipping, by air, truck etc.
- may include an animal tying device.



Informative references

Attention is drawn to the following places, which may be of interest for search:

For poultry	A01K 31/002
For pigeons	A01K 31/07

A01K 1/03

Housing for domestic or laboratory animals

Definition statement

This subclass/group covers:

(Battery-) cages for lab animals, rabbits, fur animals, etc.

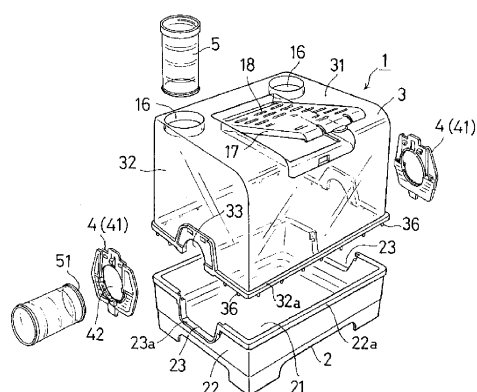
Details and elements therefore, e.g. doors, locks etc.

Show stand or -cages.

Cages may be movable, collapsible, portable, adjustable etc.

Cages may be adaptable to other cages.

Artificial burrows, e.g. for foxes.

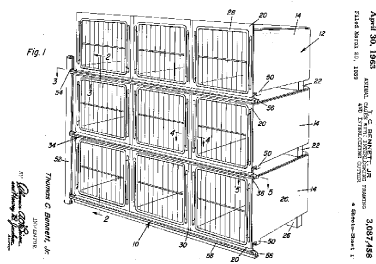


Informative references

Attention is drawn to the following places, which may be of interest for search:

Housing animals; Equipment therefor.	A01K 1/00
Stable partitions.	A01K 1/0005
Cat trays; Dog urinals; Toilets for pets.	A01K 1/0107
Floor coverings, e.g. bedding-down sheets.	A01K 1/015
Devices for use in keeping domestic animals.	A01K 1/035
Washing, cleaning, or drying devices.	A01K 13/001
Dropping-boards; Devices for removing excrement.	A01K 31/04
Collapsible cages.	A01K 31/08
Rearing or breeding animals, not otherwise provided for.	A01K 67/00
Feeding or drinking devices associated with cages.	A01K 1/0356

A01K 1/031



A01K 1/033

[N: Cat or dog houses]

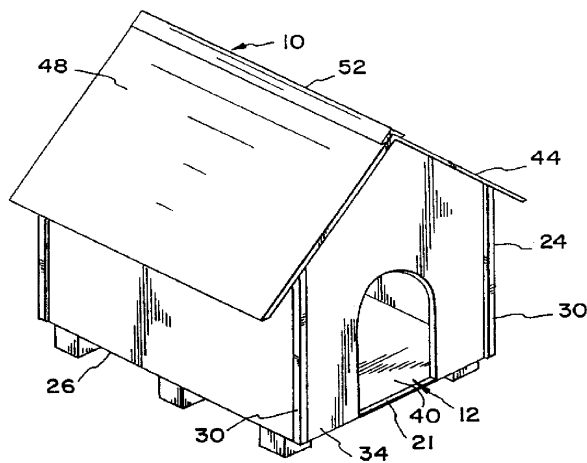
Definition statement

This subclass/group covers:

Cat or dog houses or shelters, may be foldable, transportable, adaptable in size, etc.

Houses or shelters may include ventilation/ climate control systems, etc.

Animal play-units and all-in-one animal houses.



A01K 1/034

[N: Dog Kennels]

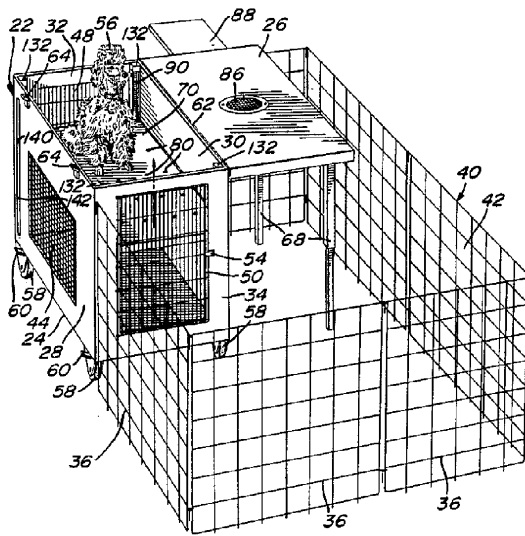
Definition statement

This subclass/group covers:

Dog kennel, may be movable, collapsible, portable, etc.

Kennel may include an exercise area, shelter, etc.

Details therefor, door lock, isolating means, drainage system, etc.



A01K 1/035

Devices for use in keeping domestic animals, e.g. fittings in housings, dog beds

Definition statement

This subclass/group covers:

Details of (laboratory-) caging system, e.g. demanuring, heating, ventilation, nesting, doors, etc.

Structures for monitoring or investigating laboratory animals' behaviour.

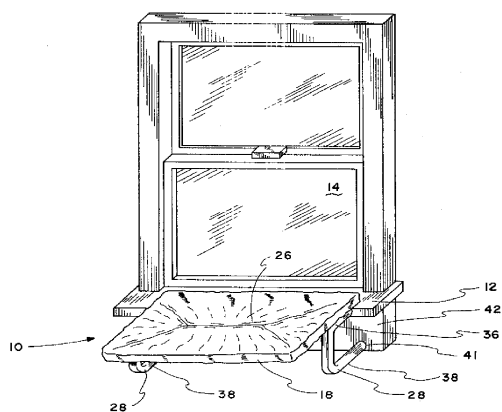
Devices offering various facilities combined, for pets e.g. playing facilities.

Sanding facilities for e.g. chinchilla cages.

Cage washing devices.

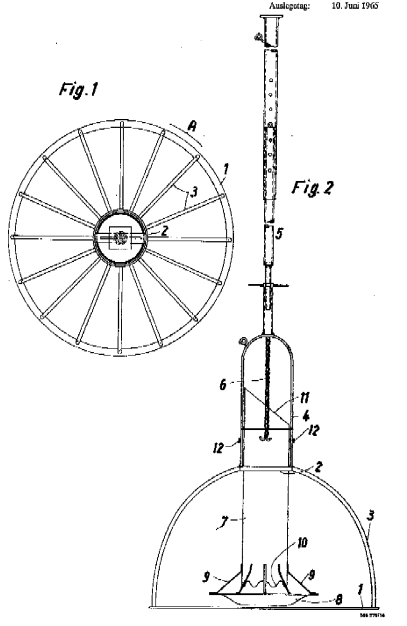
Brooders for quadrupeds.

Portable steps for animals, e.g. dog ramp, etc.



ZEICHNUNGEN BLATT 1

Numer: 1194626
Int. Cl.: A 01 K
Deutsche Kl.: 45 I - 1/02
Auslegung: 10. Juni 1965



Informative references

Attention is drawn to the following places, which may be of interest for search:

Air-conditioning, e.g. ventilation, of animal housings.	A01K 1/0047
Cat trays; Dog urinals; Toilets for pets.	A01K 1/0107
Floor coverings, e.g. bedding-down sheets.	A01K 1/015
Dog beds.	A01K 1/0353
Washing, cleaning, or drying devices.	A01K 13/001

Training or exercise equipment.	A01K 15/02
Other apparatus for animal husbandry.	A01K 29/00
Housing birds.	A01K 31/00
Dropping boards; Devices for removing excrement.	A01K 31/04
Serving doors; Passing through doors.	E06B 7/32

A01K 1/0353

[N: Dog Beds]

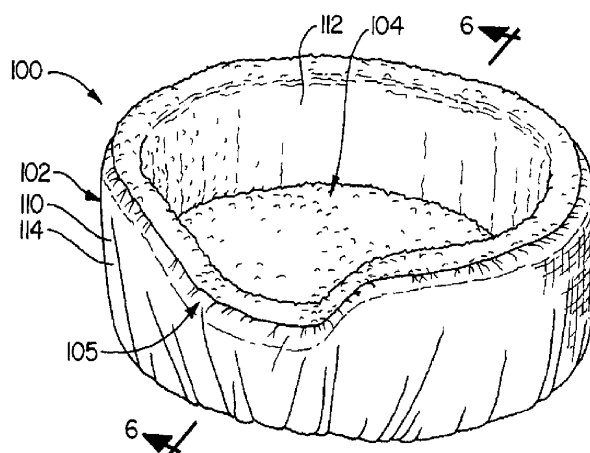
Definition statement

This subclass/group covers:

Pet sheets, blankets, beds, mattresses, etc.

- may be foldable, collapsible, portable, etc.
- may be chew-proof.
- may contain fluid, wood-shavings, foam, etc.

Details therefor, e.g. coverings, flea and insect rappelling elements, etc.



A01K 1/0356

[N: Feeding or drinking devices associated with cages (for poultry [A01K 31/005](#), [A01K 31/17](#), [A01K 39/00](#); for birds [A01K 31/06](#))]

Definition statement

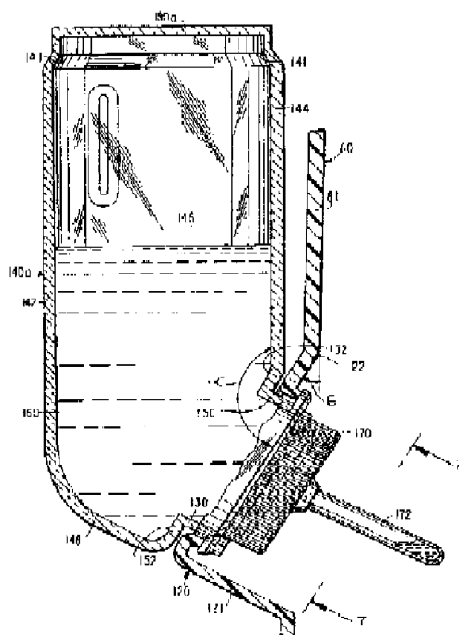
This subclass/group covers:

Feeding and/or drinking devices adapted for small animal cages, e.g. bird cages, etc.

May include a control system, multiple-dosage system, toy function, etc.

Details therefor, e.g. securing apparatus, etc.

Devices may be gnaw resistant.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Housing for domestic or laboratory animals.	A01K 1/03
Devices for use in keeping domestic animals.	A01K 1/035
Feed troughs; Feed pails.	A01K 5/01
Cages	A01K 31/06

Feeding devices	A01K 39/01
For solid feed, e.g. grit-cake holders	A01K 39/0106

A01K 1/04

Tethering-poles or the like

Definition statement

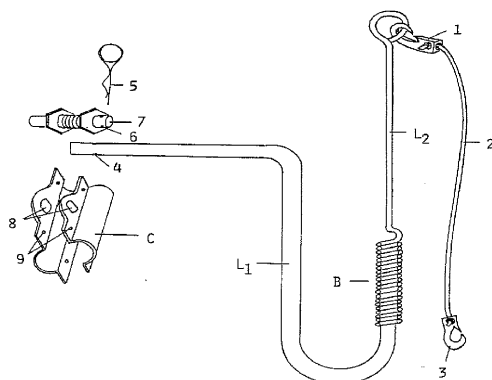
This subclass/group covers:

Means for attaching chains or the like to a fixed structure, to the ground or to a vehicle.

Attachment may be fixed or movable.

The means must be other than mere hooks, eyes or the like.

Guiding rails or cables, for attaching chains, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for fastening animals, e.g. halters, toggles, ...	A01K 1/06
Devices for grooming or caring of animals; Tail-holders...	A01K 13/00
Training or exercise equipment.	A01K 15/02
Leads or collars, e.g. for dogs.	A01K 27/00

A01K 1/06

Devices for fastening animals, e.g. halters, toggles, neck-bars, chain fastenings.

Definition statement

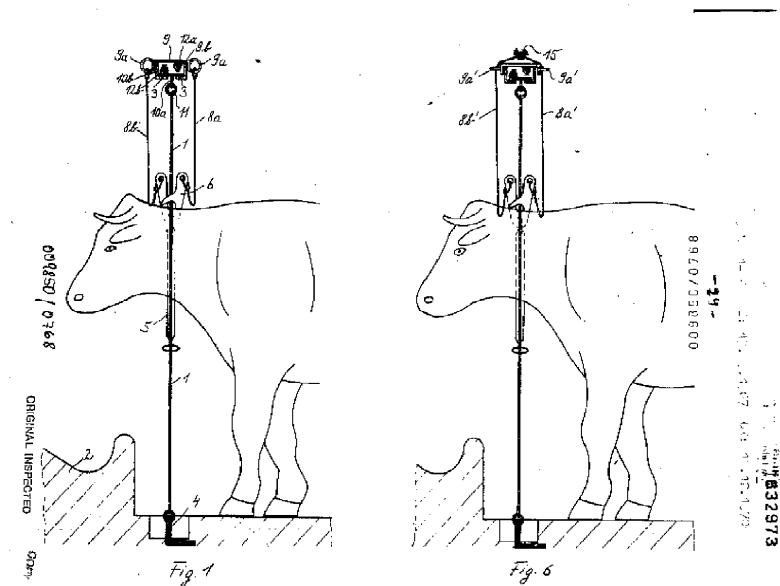
This subclass/group covers:
Devices for fastening animals to stable structures.

may include chains, movable braces, etc.

Combinations of grids and other fastening means.

Devices for automatically trapping an animal, by means of automatically trapping an element, around the neck of an animal.

Cattle head gate assembly, may be automatic.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Stable partitions	A01K 1/0005
Feeding pens for pigs or cattle	A01K 1/0209
Tethering-poles or the like	A01K 1/04
Chain fastenings	A01K 1/064

Arrangements for simultaneously releasing several animals	A01K 1/08
Stanchions	A01K 1/0606

A01K 1/0606

[N: by means of grids with or without movable locking bars
([A01K 1/08](#) takes precedence)]

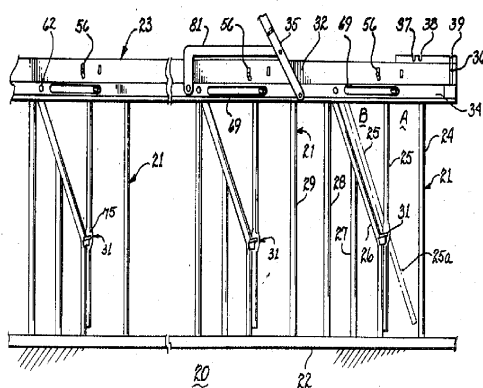
Definition statement

This subclass/group covers:

Grids for fastening animals between grids.

may have no, some or only movable bars. Bars may be movable in any plane or way.

Details therefor, e.g. locking systems, feeding rack beam, anti-hanging system, etc



Informative references

Attention is drawn to the following places, which may be of interest for search:

Stable partitions	A01K 1/0005
Feeding pens for pigs or cattle	A01K 1/0209
Devices for fastening animals, e.g. halters, toggles,	A01K 1/06
Devices for immobilisation or restraint of animals,	A01K 1/0613

Neck-bars	A01K 1/062
Arrangements for simultaneously releasing several animals	A01K 1/08
Feed racks	A01K 1/10
Milking stations	A01K 1/12

A01K 1/0613

[N: Devices for immobilisation or restraint of animals, e.g. chutes (pens for animals while being shod [A01L 13/00](#); appliances for supporting or fettering animals for operative purposes [A61D 3/00](#))]

Definition statement

This subclass/group covers:

Devices, in particular pens or boxes, for immobilising animals, e.g. animal chute, squeeze, crusher, etc.

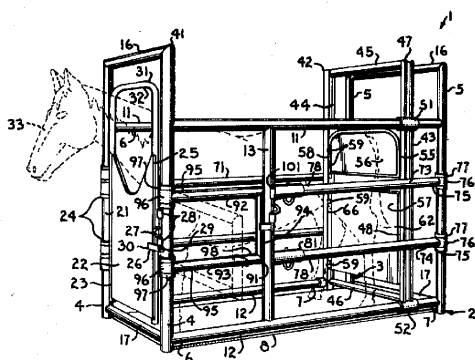
may include animal head restrainer, weighing appliances, etc.

Devices may be mountable on a vehicle, portable, adjustable in size, etc.

The immobilisation is confining or cramping rather than fettering, lifting and/or overturning may be additional.

Details for these devices, e.g. doors, tail gates, etc.

Starting boxes for rodeos, pig holders, sheep cradles, drafting gates, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Stable partitions	A01K 1/0005
Pigsties; Dog-kennels; Rabbit hutches or the like	A01K 1/02
Feeding pens for pigs or cattle	A01K 1/0209
By means of grids with or without movable locking bars	A01K 1/0606
Pasturing equipment, Corrals, Grids for preventing cattle.	A01K 3/00
Devices for grooming or caring of animals	A01K 13/00
Devices for taming animals, overturning animals.	A01K 15/00
Other apparatus for animal husbandry	A01K 29/00
Pens for animals while being shod	A01L 13/00
Slaughtering or stunning by electric current	A22B 3/06
Accessories for use during or after slaughtering	A22B 5/00
Slaughtering pens	A22B 5/02
Slaughterhouse arrangements	A22B 7/00

A01K 1/062

Neck-bars, [N: e.g. neck collars]

Definition statement

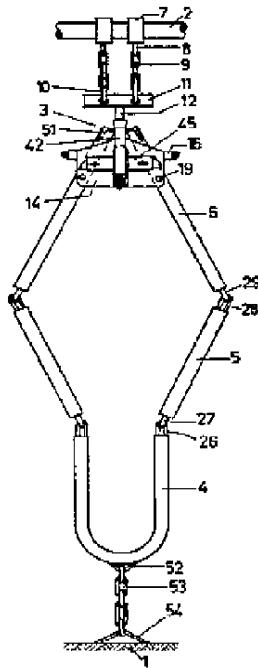
This subclass/group covers:

Devices for tying up an animal; stanchions suspended from a structural part above, forming a movable collar-like frame.

may be automatic; self-locking.

Details therefor, e.g. alignment device, triggering mechanism, etc.

Stanchions do not form part of, nor cooperate with, a grid. They are independent of grids.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for fastening animals.	A01K 1/06
Arrangements for simultaneously releasing several animals.	A01K 1/08

A01K 1/064

Chain fastenings

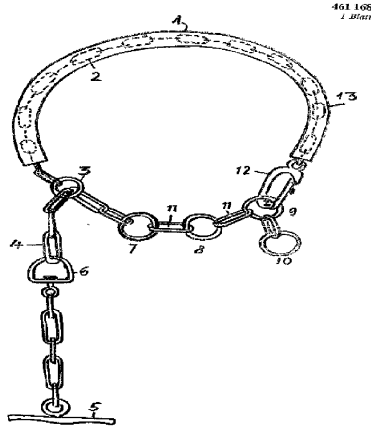
Definition statement

This subclass/group covers:

Devices for fastening chains, or similar elements around animals' necks, to the stable structure.

may be fastened around the necks or bellies of the animals.

Details therefore, e.g, hooks, halter fittings, etc.



Attention is drawn to the following places, which may be of interest for search:

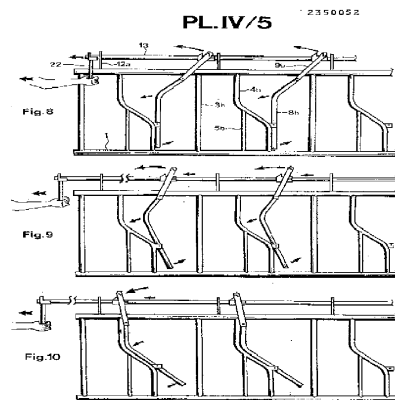
Stable partitions	A01K 1/0005
Tethering-poles or the like	A01K 1/04
Devices for fastening animals	A01K 1/06
Arrangements for simultaneously releasing several animals	A01K 1/08

Arrangements for simultaneously releasing several animals

Release means may be automatic, by hand, etc. (e.g. connected with door

controls, or frightening means).

Parts of stable may be movable.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for fastening animals.	A01K 1/06
By means of grids with or without movable locking bars	A01K 1/0606
Neck-bars	A01K 1/062
Chain fastenings	A01K 1/064

A01K 1/10

**Feed racks, [N: e.g. associated with enclosures or troughs]
(devices for impeding movement of animals [A01K 15/04](#))**

Definition statement

This subclass/group covers:

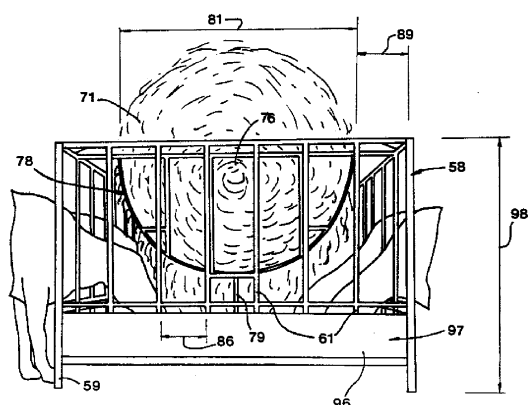
Barriers or containers for feeding roughage, indoors or outdoors. (except for poultry or small animals)

may be movable (by animal or motor), portable, collapsible, transportable.

Devices may contain a trough, incorporated in e.g. a hay rack.

Barriers may be electrified and may consist of e.g. a feeding rack, etc.

Details therefor, e.g. fastening grids, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Housing animals; Equipment therefor	A01K 1/00
Stable partitions	A01K 1/0005
Feeding or drinking devices associated with cages.	A01K 1/0356
By means of grids with or without movable locking bars	A01K 1/0606
Feeding devices for stock or game	A01K 5/00
Feed troughs; Feed pails	A01K 5/01

A01K 1/105

[N: Movable feed barriers, slides or fences]

Definition statement

This subclass/group covers:

Movable feed barriers, slides or fences for use in or outside the stable. Mainly for cattle.

by means of moving fodder to the barriers or moving the barriers to the fodder.

Barriers are movable by means of wheels, rails, guiding cables, etc.

FIG. 1

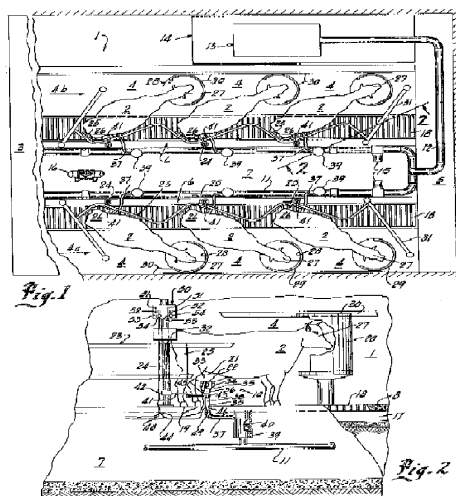
Milking stations (devices for milking [A01J 1/00](#) to [A01J 9/00](#))

This subclass/group covers:

may be movable or transportable, e.g. outdoors.

Fastening devices specially adapted to milking stations.

Door controls for milking-parlours, if part of a whole structure.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Housing animals; Equipment therefor	A01K 1/00
Stable partitions	A01K 1/0005
Feeding pens for pigs or cattle	A01K 1/0209
By means of grids with or without movable locking bars	A01K 1/0606
Milking machines	A01J
Automatic identification systems for animals	A01K 11/006
Washing, cleaning, or drying devices	A01K 13/001

A01K 1/123

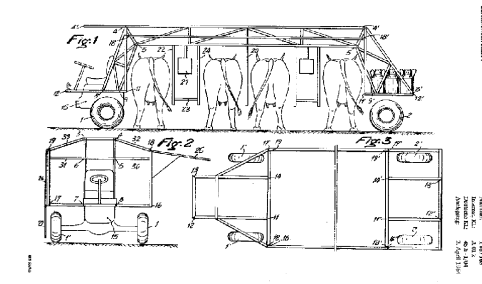
[N: Mobile milking parlours]

Definition statement

This subclass/group covers:

Mobile milking parlours, may be used in barn and on pasture ground.

- may be motor-driven.
- may be foldable, transportable, etc.
- may be computer controlled.



A01K 1/126

[N: Carousels]

Definition statement

This subclass/group covers:

Milk units are arranged in carousel.

- may be mobile.
- may include rotary animal platform.

Details therefor, e.g. movement detectors, movable floor, wash-system, drive arrangements, etc.

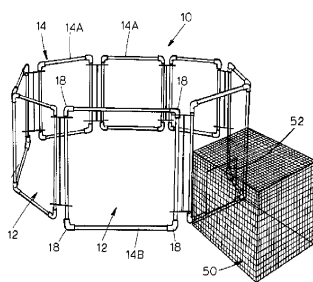


FIG. 8

U.S. Patent
Oct. 13, 1999
Sheet 8 of 8
5,967,089

Informative references

Attention is drawn to the following places, which may be of interest for search:

Housing animals; Equipment therefor	A01K 1/00
Stable partitions	A01K 1/0005
Tethering-poles or the like	A01K 1/04
Feed racks	A01K 1/10
Feeding devices for stock or game	A01K 5/00
Training or exercise equipment	A01K 15/02
Slaughterhouse driving corridors	A22B 7/00
Electric circuits for fences	H05C
Wire Fencing in general, incl. posts	E04H 17/00

A01K 3/002

[N: Grids for preventing cattle from straying]

Definition statement

This subclass/group covers:

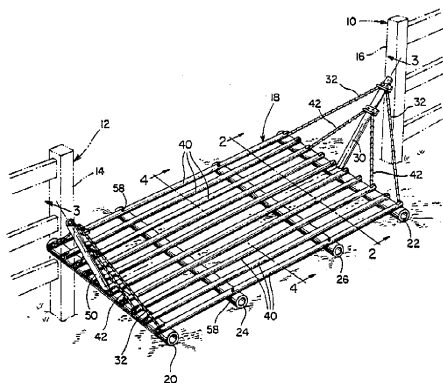
Devices for preventing animals from passing through a gap in a fence where a road is passing. Vehicles or pedestrians may pass freely.

by means of grids, gates, etc.

Grids may be electrified or include movable parts, etc.

Gutter guards (other than mere gratings or the like), preventing cattle from stepping into gutters in stables.

Electronic cattle guard.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Floor coverings, e.g. bedding-down sheets	A01K 1/015
Cat or dog houses	A01K 3/005
Training or exercise equipment	A01K 15/02
Devices for impeding passage through fencing	A01K 15/04
Road profiles	E01F13/00B

A01K 3/005

[N: Electrified wire fencing (circuits [H05C](#))]

Definition statement

This subclass/group covers:

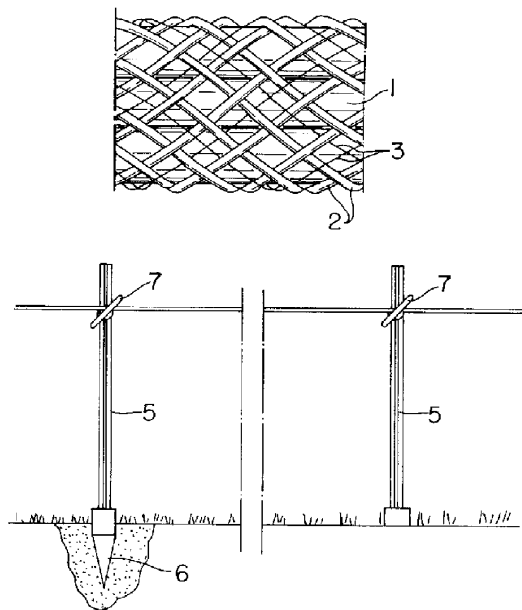
Electric wire fencing, may be portable, movable, etc.

Components therefor, e.g. wire or tape, isolators, posts, etc.

Apparatus for dispensing and collecting electrified wire, may be attachable to

vehicle.

Electrified gates, with e.g. electric fence panels, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Grids for preventing cattle from straying.	A01K 3/002
Fence-wire.	H01B 5/008
Insulators; handles.	H01B 17/145
Fencing in general	E04H 17/00

A01K 5/00

Feeding devices for stock or game ([A01K 1/10](#) takes precedence; for poultry [A01K 39/00](#)) [N: Feeding wagons; Feeding stacks]

Definition statement

This subclass/group covers:

Feeders for roughage or general feed dispensing, may be transportable.

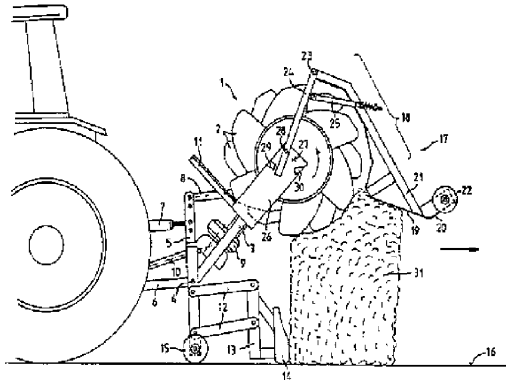
Tractor borne feeders, mainly for outdoor use.

Grating or roughage feeding corrals or barriers, transportable for outdoor use.

Mobile feeding stations, may include shelters.

bale distributors or -shredders for (outdoor) feeding.

Feeders may contain mixers. (e.g. mixing, mincing, weighing devices etc.)



Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or drinking devices associated with cages	A01K 1/0356
By means of grids with or without movable locking bars	A01K 1/0606
Feed racks	A01K 1/10
Pasturing equipment; Grids for preventing cattle from	A01K 3/00
Automatic devices	A01K 5/02
With stable trolleys	A01K 5/0266
Feeders for poultry	A01K 39/00
Distributing roughage	A01D , A01F
Preparing animal feed and roughage	A23N 17/00
Animal feed mixers	B01F 7/00658

A01K 5/001

[N: Fodder distributors with mixer or shredder (adaptations of cutting machine [A01F 29/00](#))]

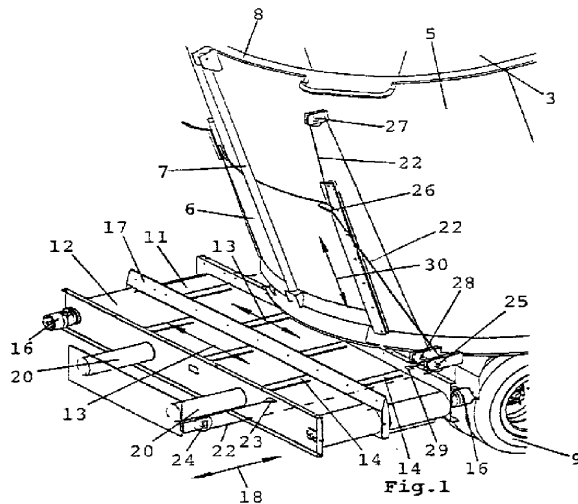
Definition statement

This subclass/group covers:

Devices for mixing or shredding and distributing fodder.

- may be mountable on vehicle.

Details therefor, e.g. cutter blade, loaders, etc.



A01K 5/002

[N: With mixing or shredding element rotating on horizontal axis]

Definition statement

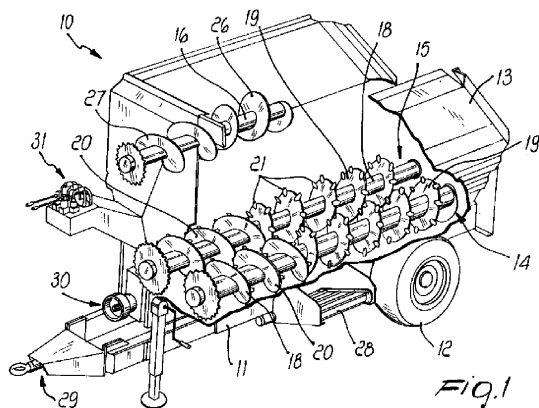
This subclass/group covers:

Fodder distributors including a mixing or rotating element on a horizontal axis.

may be mountable or attachable to vehicle, e.g. tractor.

Details therefor, e.g. screws, cutting blade, scraping blades, etc.

Devices may include on or more mixing units, dispensing apparatus, etc.



EP-A-699388

A01K 5/004

[N: With mixing or shredding element rotating on vertical axis]

Definition statement

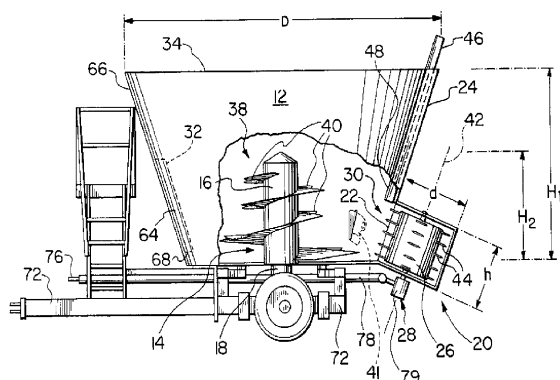
This subclass/group covers:

Fodder distributors including a mixing or rotating element on a vertical axis.

may be mountable or attachable to vehicle, e.g. tractor.

Devices may include weighing machine, mixing container, loading mechanism etc.

Details therefor, e.g. blades, etc.



A01K 5/005

[N: Where fodder is conveyed by conveyor or slide to mixing or shredding elements on transversal and horizontal axes]

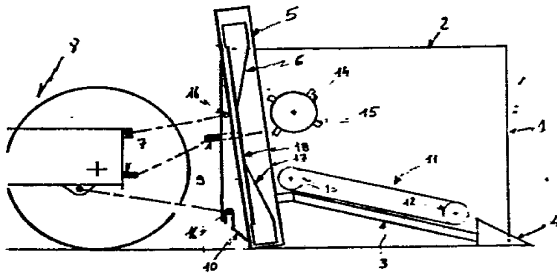
Definition statement

This subclass/group covers:

Devices including a conveyor or slide to mixing or shredding elements, including transversal and horizontal axes.

- may be mountable or attachable to vehicle, e.g. tractor.
- may include bale un-roller, bale loosening system, (un)loader, etc.

Details therefor, e.g. ejector, mixer, cutter, etc.



A01K 5/007

[N: With mixing or shredding area contained inside an endless chain or belt conveyor]

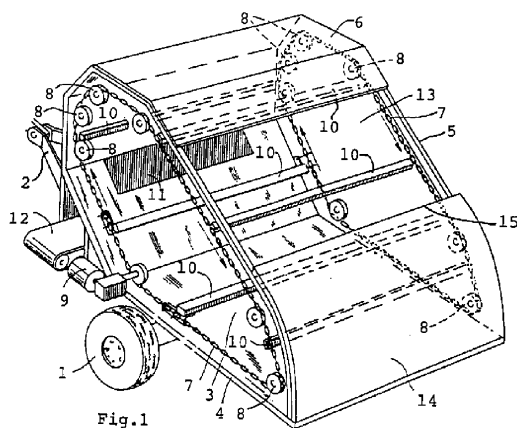
Definition statement

This subclass/group covers:

Devices with mixing or shredding area contained inside an endless chain or belt conveyor.

- may be attachable to vehicle.
- mixing element may be movable.

Details therefor, e.g. measuring equipment, cutting member, etc.



A01K 5/008

[N: Feed bags (nose-bags for oats [B68B 5/00](#))]

Definition statement

This subclass/group covers:

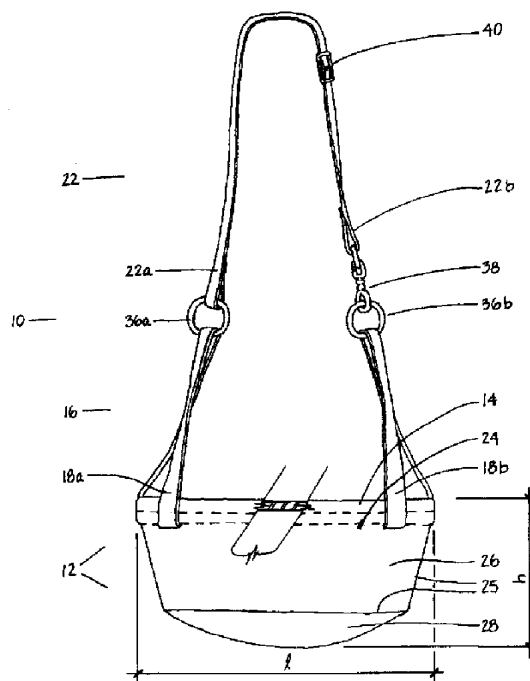
Feed bags, mostly for horses.

Details therefor, e.g. attachments for feed bags, etc.

Bucket holders, e.g. for rearing calves, etc.

Feeding containers for animals, pig troughs, bracket for animal feeders, etc.

Devices may be portable, collapsible, etc.



A01K 5/01

Feed troughs; Feed pails [N: ([A01K 1/10](#) takes precedence)]

Definition statement

This subclass/group covers:

Animal feed containers, may include cover lid, etc.

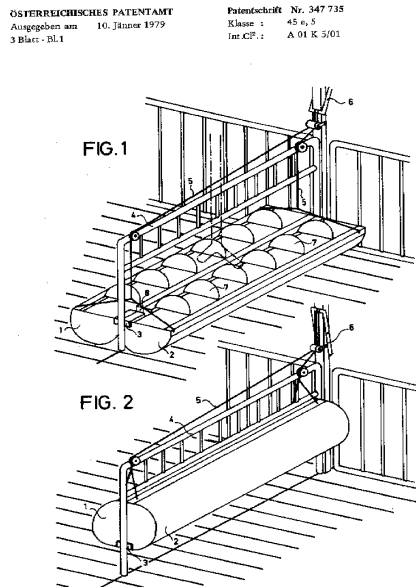
Feed troughs, may include reservoir, etc.

Racks for feeding bales of hay.

Feeding device holder, e.g. bucket holder, etc.

Feeding devices, may be movable, mountable (on walls, vehicles etc.), portable, adjustable, etc.

Feeding devices may be automatic, may include a weighing device, lifting system, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Housing animals; Equipment therefor	A01K 1/00
Stable partitions	A01K 1/0005
Devices for use in keeping domestic animals	A01K 1/035
Feeding or drinking devices associated with cages	A01K 1/0356
Feed racks	A01K 1/10
Licking-stone holders	A01K 5/015
Automatic devices	A01K 5/02

With timing mechanisms	A01K 5/0291
Gravity replenishment from a reserve	A01K 5/0225
Watering equipment for stock or game	A01K 7/00
Feeding or drinking appliances for poultry or other birds	A01K 39/00
Feed troughs; Feed throwers	A01K 39/014

A01K 5/0107

[N: Transportable fodder pails or troughs]

Definition statement

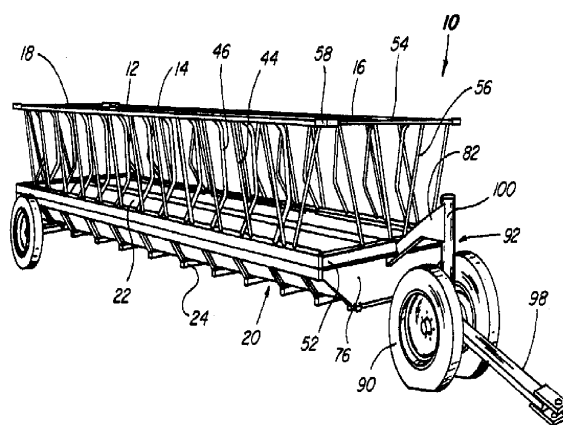
This subclass/group covers:

Transportable feeding devices, e.g. (round) hay racks, etc.

- may be collapsible, portable, etc.
- may include watering device.
- may include shelter for animals.

Devices may be mountable on vehicle.

Details therefor, e.g. coupling system, etc.



A01K 5/0114

[N: Pet food dispensers; Pet food trays (time-controlled [A01K 5/0291](#))]

Definition statement

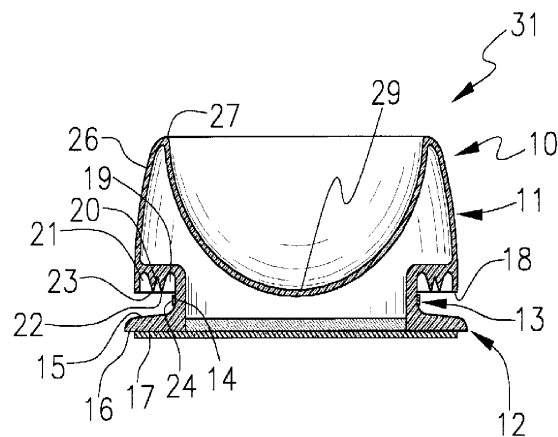
This subclass/group covers:

Feeding devices for pets, e.g. cats and dogs, etc.

- may include aroma, insect repelling devices, etc.
- may be automatic, portable, collapsible, etc.
- may include animal detection system.

Feed bowl support devices, covering for feed bowls, etc.

Pet food toys, e.g. toy ball feeder, treat dispensing toy, etc.



A01K 5/015

Licking-stone holders (salt blocks [A23K 1/16](#)); [N: Other dispensers for minerals]

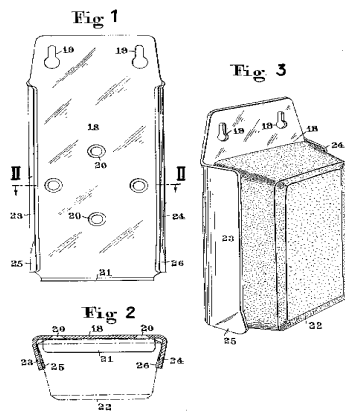
Definition statement

This subclass/group covers:

(Minerals, salt) Licking-stone holders, mostly for pets and farm animals.

- may be inserted in an animal feed container.

Details therefor, e.g. hoops for protection, etc.



A01K 5/02

Automatic devices [N: (automatic identification devices for stock [A01K 11/006](#))]

Definition statement

This subclass/group covers:

Automatic feeding devices and apparatus for controlling/ monitoring animal feeding.

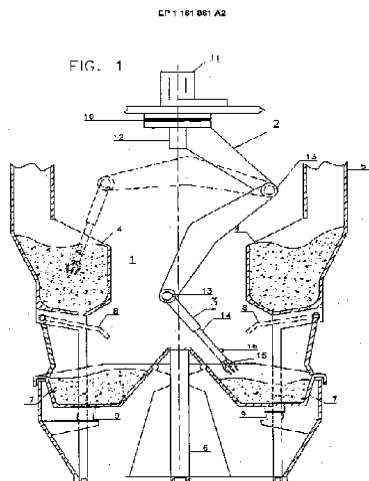
- by means of computer systems, registration device, solar actuated, etc.

Devices may control animal drug usage, feed components, temperature of food, mixture, etc.

Devices may include weighing apparatus, dosage system, etc.

Details therefor, e.g. valve, gate device for automatic feeding apparatus, etc.

Boredom-reducing feeding devices.



EP-A-1161861

Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or drinking devices associated with cages	A01K 1/0356
Milking stations	A01K 1/12
Feeding devices for stock or game	A01K 5/00
Feed troughs; Feed pails	A01K 5/01
Automatic devices	A01K 5/02
Feeding devices	A01K 39/01
Filling automatically	A01K 39/012
Combined feeding and drinking appliances	A01K 39/04
Distributing forage	A01F 25/00

A01K 5/0208

[With conveyer belts or the like]

Definition statement

This subclass/group covers:

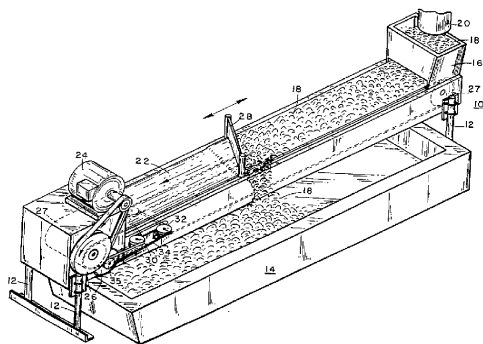
Automatic feeding devices with conveyer belts or the like.

Weighing or dosing means may be incorporated.

Devices may include apparatus for tensioning a belt, belt retainer, stop device, etc.

Devices may be adjustable.

Cleaner apparatus for feeding devices with conveyor belt.



A01K 5/0216

[N: For the distribution of liquid fodder]

Definition statement

This subclass/group covers:

Devices for (automatically) distributing fluid fodder, e.g. milk, slurry or paste, or other fluids, e.g. medication.

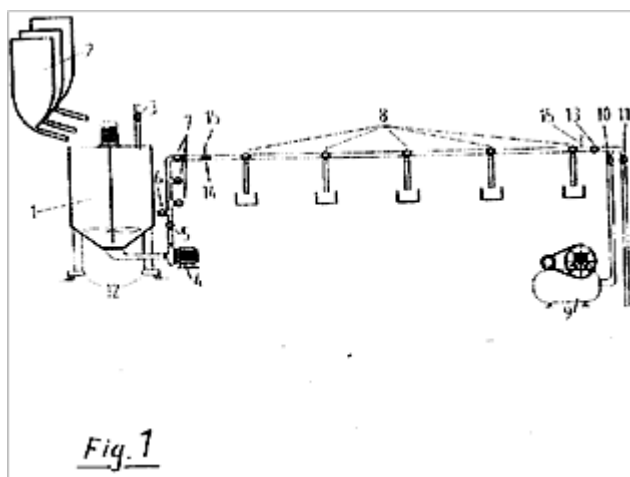
Devices may include, pumps, valves, pipes, dosage systems, containers, heaters, dispensing means (incidentally teats), etc.

Mixing devices to prepare the fodder.

Cleaning devices therefor.

Devices may be mountable on vehicles, e.g. trolleys.

Dispensing means may include licking wheels or -balls.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Feed troughs; Feed pails	A01K 5/01
Watering equipment etc.	A01K 7/00
Sucking apparatus for young stock	A01K 9/00
Feeding or drinking appliances for bees	A01K 53/00
Preparing foodstuff	A23N 17/00

A01K 5/0225

[N: Gravity replenishment from a reserve]

Definition statement

This subclass/group covers:

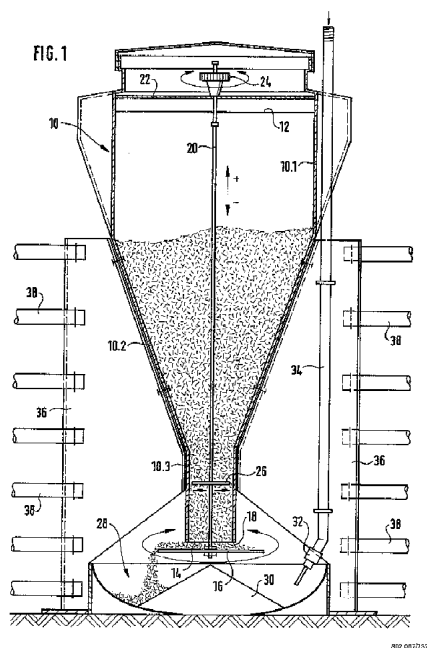
Feeding devices combined with a hopper or the like, e.g. combination hopper-trough.

may include drinking device.

Devices may include, dosing, weighing or timing means, e.g. pet feeder.

Details therefor, e.g. gate mechanism, dispensing mechanism, mixer, etc.

Self-feeding silo's.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or drinking devices associated with cages	A01K 1/0356
Feed racks	A01K 1/10
Feeding devices for stock or game	A01K 5/00
Feed troughs; Feed pails	A01K 5/01
Licking-stone holders	A01K 5/015
Automatic devices	A01K 5/02
For the distribution of liquid fodder	A01K 5/0216
With mechanisms for delivery of measured doses	A01K 5/0275
With timing mechanisms	A01K 5/0291
Watering equipment for stock or game	A01K 7/00

Filling automatically	A01K 39/012
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A01K 5/0233

[N: Dispensing by dosing means actively operated by the animal]

Definition statement

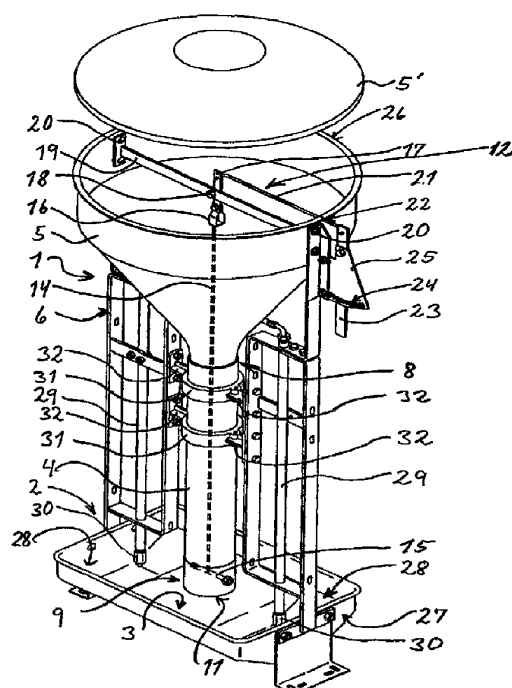
This subclass/group covers:

Feeding devices dispensing by dosing means, actively operated by the animal.

Dosing devices may operate by means of e.g. a counter weight, remote control, valves, ball check, nipple feeder, etc.

may be in combination with a trough unit, feed transport device, drinking device, etc.

Devices may dispense solid or liquid food.



A01K 5/0241

[N: Dispensing by means of stirring mechanisms or agitators operated by the animal]

Definition statement

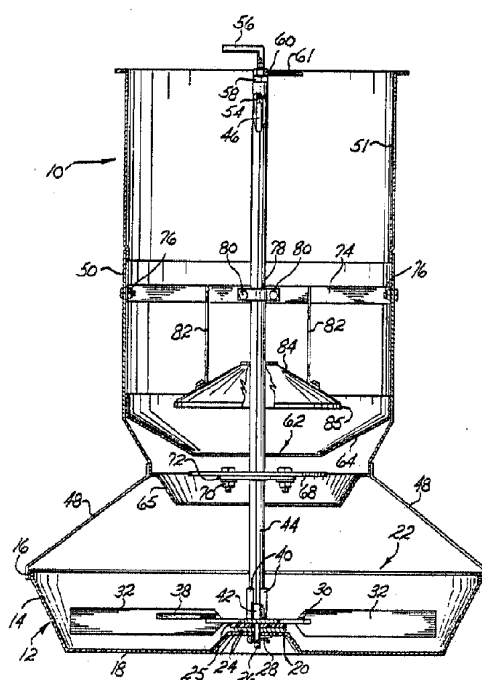
This subclass/group covers:

Feeding devices dispensing by means of stirring mechanisms or agitators operated by the animal.

By means of a (rotating) wheel, rotor blades, ball check, a rod, deflector, etc.

Feeding devices may include water system.

Devices may dispense solid or liquid food.



A01K 5/025

[N: With access to feeding place or trough only possible through access doors or lids to be opened by the animal]

Definition statement

This subclass/group covers:

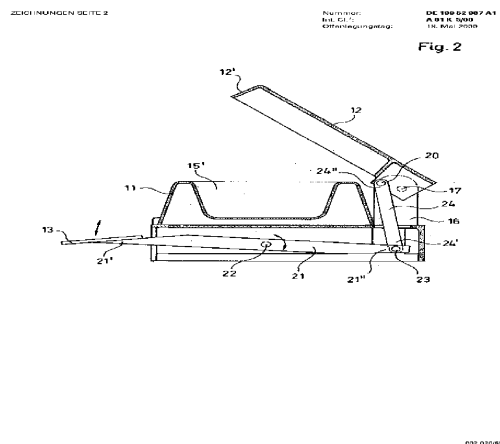
Feeding devices with access to feeding place or trough only possible through access doors or lids to be opened by the animal.

By means of a (reciprocable) closure unit, open and closed by activation unit.

- may be activated by weight of animal, registration system (sensor), timer, etc.

Feeding devices may include controllable gates

Details therefor, e.g. hinge mechanism, etc.



A01K 5/0258

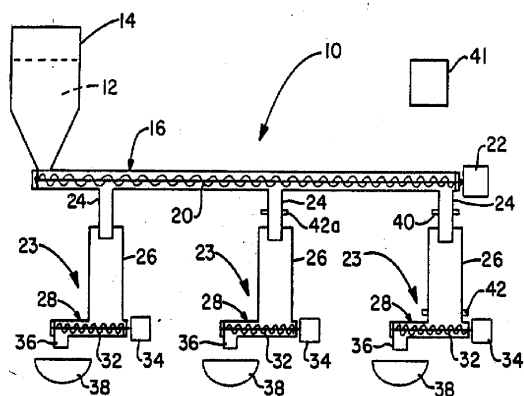
[N: With endless screws]

Definition statement

This subclass/group covers:

Automatic feeding devices with endless screw.

- may include a hopper, adjustable (un-) loader, feed lever sensor, feed intake cup apparatus, etc.
- may be computer controlled.
- may be movable, attachable to wall, etc.



A01K 5/0266

[N: With stable trolleys, e.g. suspended]

Definition statement

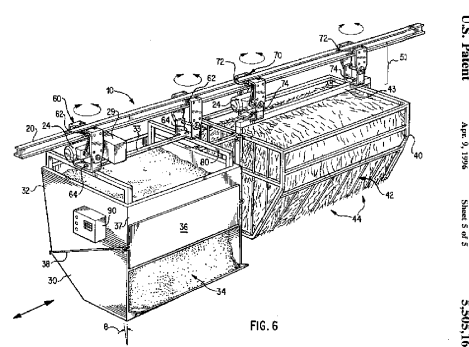
This subclass/group covers:

Automatic feeding devices by means of trolleys for animals in stables (including poultry).

- may include a reserve (e.g. one or more hoppers), mixing device, timing device or dosing device, identification device, etc.

Trolleys may be movable by rails, tracks, attachable to vehicle (e.g. tractor), etc.

Movements may be reciprocating, e.g. along an circular path.



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Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding devices for stock or game	A01K 5/00
With mechanisms for delivery of measured doses	A01K 5/0275
Sucking apparatus for young stock	A01K 9/00
Feeding devices	A01K 39/01
Preparing foodstuff	A23N 17/00
Distributing storage	A01F 25/00

A01K 5/0275

[N: with mechanisms for delivery of measured doses ([A01K](#)

5/0233 takes precedence)]

Definition statement

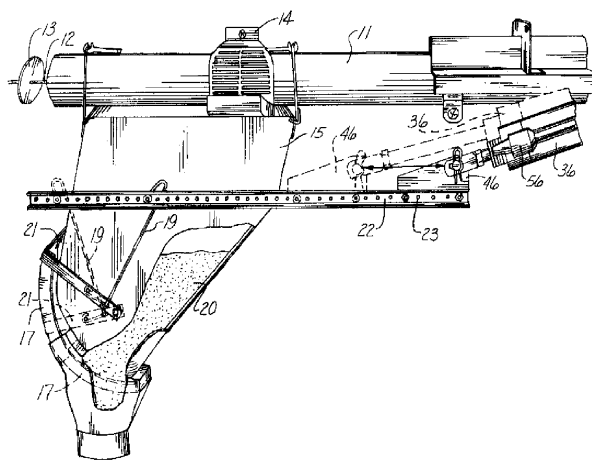
This subclass/group covers:

Feeding devices by means of mechanisms for delivery of measured doses.

- may transport solid and/or liquid food. Water devices may be included.

Devices may include means of weighing, timing mechanisms, metering unit(s), hopper(s), conveyors, mixing devices, etc.

Details therefor, e.g. pipes, valves, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Automatic devices	A01K 7/02
Other apparatus for animal husbandry	A01K 29/00
Feeding devices	A01K 39/01
Filling automatically	A01K 39/012
Other aviculture appliances	A01K 45/00
Feeding devices for fish	A01K 61/02
Feed or fodder as such	A23K 1/00
Preparing feed or fodder	A23N 17/00

A01K 5/0283

[N: By weight]

Definition statement

This subclass/group covers:

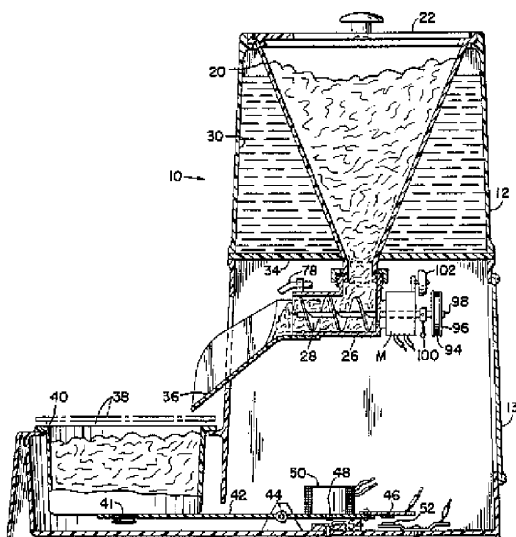
Automatic feeding devices with mechanics for delivery of measured doses by means of weighing.

Weighing may occur at any point of the system. (starting e.g. at the silo).

Weighing of (refused) feed or animals (any kind) may be included.

Devices may include a timing device, registration device, etc.

Included are weighing means for controlling the duration of distribution to stations where no weighing occurs.



Informative references

Attention is drawn to the following places, which may be of interest for search:

With mechanisms for delivering of measuring doses	A01K 5/0275
Other apparatus for animal husbandry	A01K 29/00
Other aviculture appliances	A01K 45/00

A01K 5/0291

[N: With timing mechanisms]

Definition statement

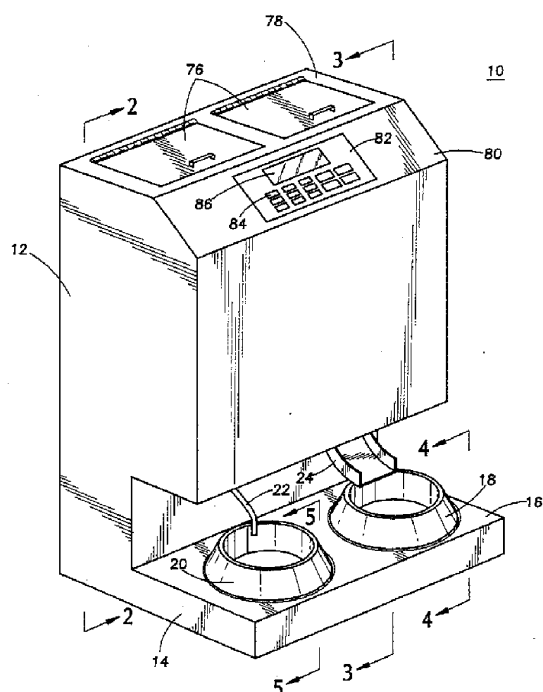
This subclass/group covers:

Automatic feeding devices with timing mechanisms. For all kinds of animals.

Timing mechanisms must be of some specific importance.

Devices may include dosing means, weighing apparatus, etc.

Access can be given by opening lids, dispensing food, discovering bowls, switching off electric barriers, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Dosing feed	A01K 5/0275
Feeders for fish	A01K 61/02
Feed troughs; Feed pails	A01K 5/01
Other apparatus for animal husbandry	A01K 29/00
Preparing foodstuff	A23N 17/00

A01K 7/00

Watering equipment for stock or game

Definition statement

This subclass/group covers:

Watering equipment for animals, e.g. troughs, buckets, bowls, etc.

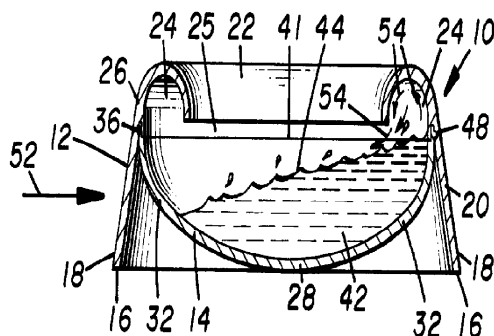
- may be portable, foldable, elevated, collapsible, etc.

Watering devices may include fastening means, temperature controlling systems, anti-freeze, etc.

Details therefor, e.g. drinking fountains, vessels, teats, etc.

Devices may be combined with feeders.

Troughs may have water in- and outlets.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or drinking devices associated with cages	A01K 1/0356
Feed troughs; Feed pails	A01K 5/01
Sucking apparatus for young stock	A01K 9/00
Drinking appliances	A01K 39/02
Combined feeding and drinking appliances	A01K 39/04

A01K 7/02

**Automatic devices, [N: e.g. actuated by weight of water;
Medication dispensers] (construction of valves [F16K](#))**

Definition statement

This subclass/group covers:

Automatic watering devices, disclosing several of the features of groups [A01K 7/022](#)- [A01K 7/06](#).

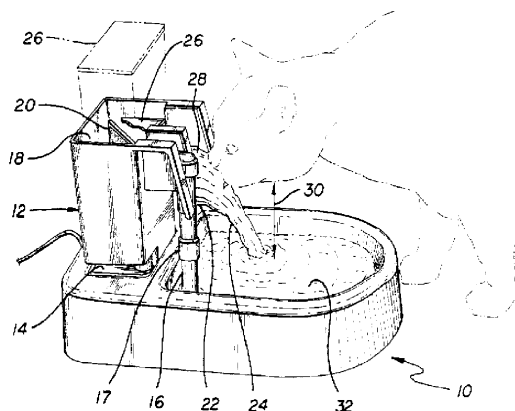
Devices may deliver medicine, disinfectants, e.g. vaccination delivery system.

Devices may comprise feeding system.

Devices may be controlled by weight or level of water, e.g. water-level regulator, etc.

Feed-moisturizing devices, without feeder characteristics.

Devices may include dosing system, filling system, identification system, time-controlling system, anti-freeze devices, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or drinking devices associated with cages	A01K 1/0356
Feed troughs; Feed pails	A01K 5/01
Watering equipment for stock or game	A01K 7/00

Sucking apparatus for young stock	A01K 9/00
Drinking appliances	A01K 39/02
Water valves	F16K
Preparing feed fluid	A01K 5/0216
Dosing	G05D

A01K 7/022

[N: Pumps actuated by the drinking animal]

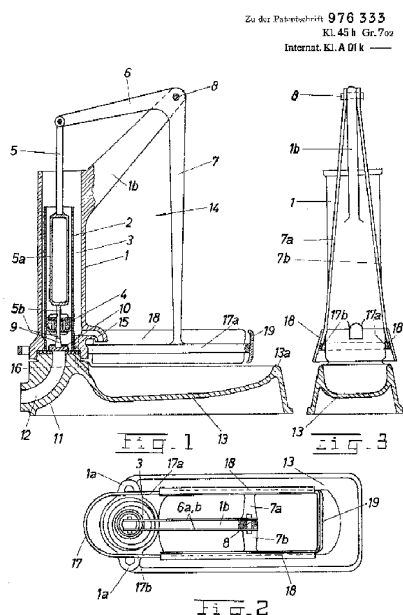
Definition statement

This subclass/group covers:

Watering devices including pumps actuated by the drinking animal, e.g. piston pumps, vane pumps, etc.

by means of a pedal, movement detector, etc.

Devices may include liquid containing food.

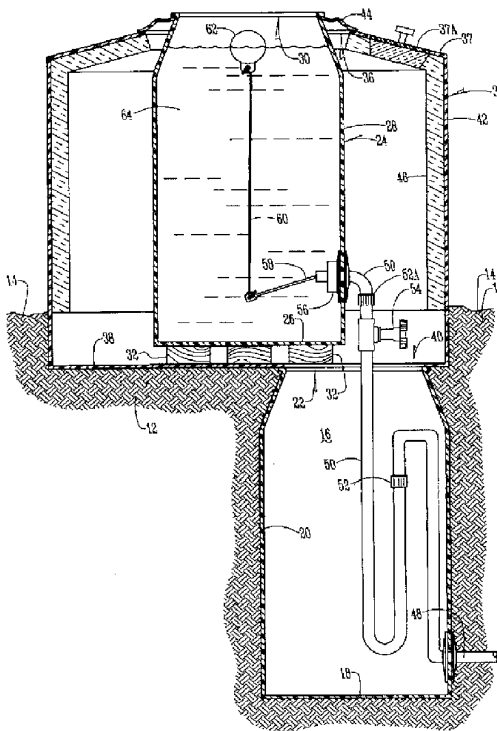


A01K 7/025

[N: Water tanks; Water heaters]

Definition statement

This subclass/group covers:
Watering devices where a heating and/or insulating aspect or a tank aspect is included.
Details or systems for tanks or containers, e.g. connections therefor, etc.
Devices may include filters, troughs or valves, etc.
Heating and cooling devices, e.g. cooling disk, electrical heater, etc.
Anti-freeze devices, (ice-fishing hole heater).
Thermal insulation means.
Devices may include anti-burst devices, e.g. expansion plugs.



Informative references

Attention is drawn to the following places, which may be of interest for search:

For the distribution of liquid fodder	A01K 5/0216
Watering equipment for stock or game	A01K 7/00

A01K 7/04

Actuated by float

Definition statement

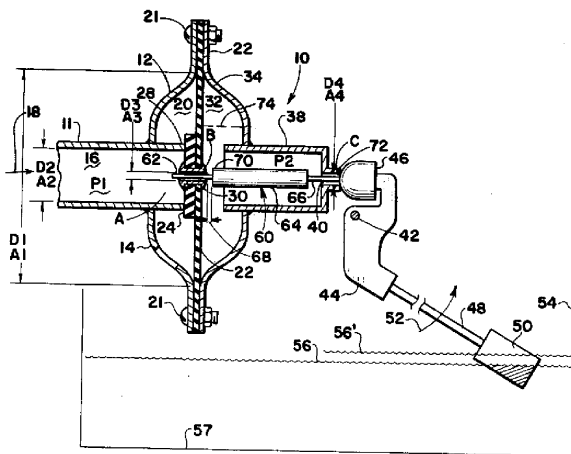
This subclass/group covers:

Automatic drinking devices actuated by floats.

Details therefor, e.g. float valve mechanism, valves, etc.

Water control valve may be adjustable.

Devices may include feeding system.



A01K 7/06

actuated by the animal [N: through valve control (for poultry [A01K 39/0213](#))]

Definition statement

This subclass/group covers:

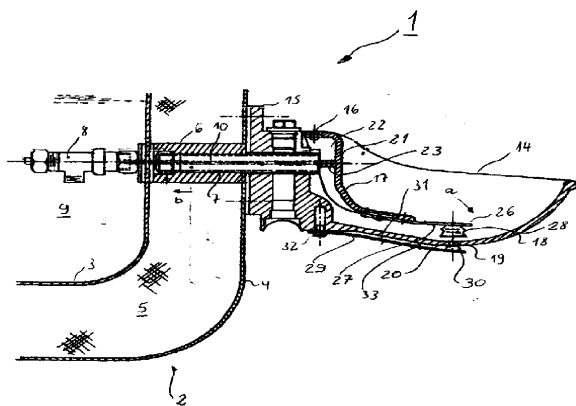
Automatic drinking devices actuated by the animal, by means of valves.

Devices may include bowl, troughs, cups, etc.

Actuation may be indirect, e.g. step-board switch.

Auxiliary features therefor, e.g. heating, fastening, etc.

Devices may be frost-proof.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Sucking apparatus for young stock.	A01K 9/00
Nipple drinkers.	A01K 39/0213
Valve features	F16K 1/00

A01K 9/00

Sucking apparatus for young stock [N: Devices for mixing solid food with liquids]

Definition statement

This subclass/group covers:

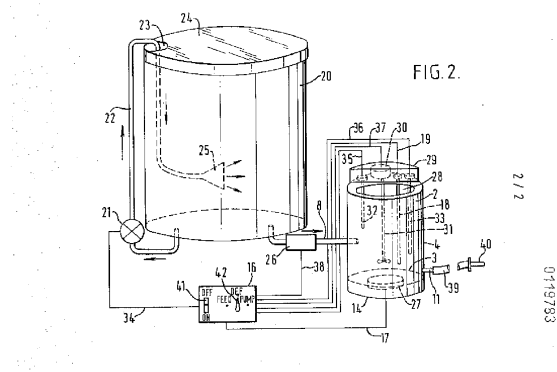
Devices for mixing or delivering liquid feed, e.g. milk substitute, to teats for young animals.

Details therefor, e.g. teats, guiding means (e.g. moving grids), weighing means, mixing devices, etc.

Devices may be movable, e.g. on stable rails.

Devices may include registration system, dry feeding system, etc.

An additional ingredient may be added by mixing, e.g. medicine.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Pigsties; Dog-kennels; Rabbit-hutches or the like	A01K 1/02
Feed troughs; Feed pails	A01K 5/01
For the distribution of liquid fodder	A01K 5/0216
Actuated by the animal	A01K 7/06

A01K 9/005

[N: Teats or nipples (teats for feeding bottles for humans [A61J 11/00](#))]

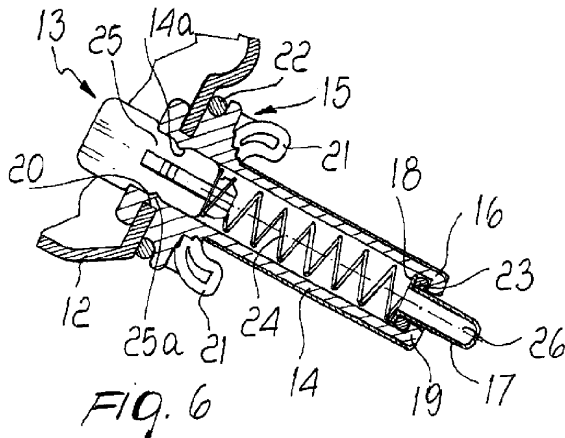
Definition statement

This subclass/group covers:

Teats and nipples for animal feeding devices, mostly for liquid food, e.g. milk.

Teats may include a sensor for determining values, e.g. resistivity, temperature, etc.

Details therefor, e.g. valve assembly to control fluid movement, etc.



A01K 11/00

Marking of animals (of poultry [A01K 35/00](#); [N: of fish [A01K 61/001](#)]; lead-sealing pliers [B25B](#))

Definition statement

This subclass/group covers:

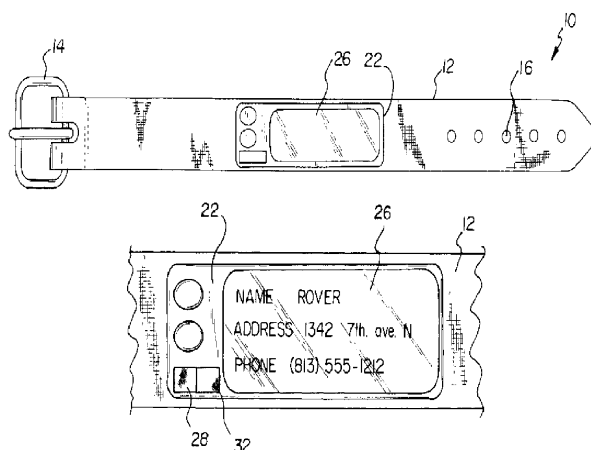
Identification marks, e.g. tags, buttons, rings, collars, for animals other than birds or fish.

- may be attachable to neck, tail, leg, etc. of the animal, or sticking labels.
- may contain pesticides, ID-transmitters, electronic memory element etc.

Tools for applying marks, dying devices for marking animals.

ID-codes suitable for marks.

Biologically marking methods and apparatus, e.g. applying antigen.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Nose-rings; Fastening tools therefor...	A01K 15/003
Marking poultry or other birds.	A01K 35/00
Sorting, grading counting or marking live fish.	A01K 61/001
Sealing pliers...	B25B 7/20
Tag application...	B65C 7/00
Tags, labels...	G09F 3/00

A01K 11/001

[N: Ear-tags]

Definition statement

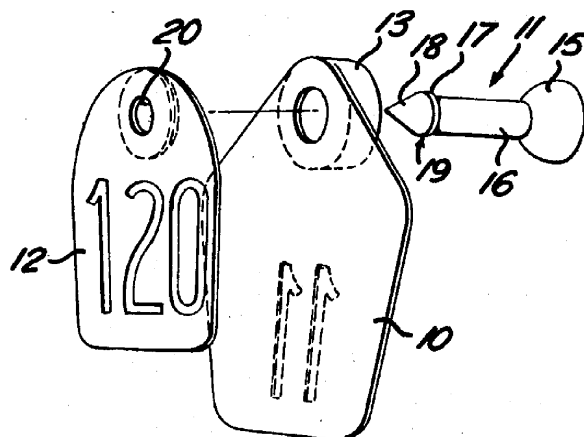
This subclass/group covers:

Ear-tags for marking animals, mostly cattle.

Details therefor, e.g. locking system, security features, etc.

Ear-tags may include transponder housing, insecticide dispenser, identification system, etc.

Devices for applying ear-tags.



A01K 11/002

[N: Pliers specially adapted for fixing ear-tags to ears]

Definition statement

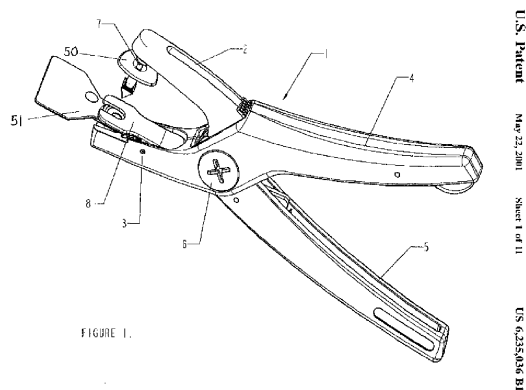
This subclass/group covers:

Ear-tag applicators, mostly for cattle.

- may include movable applicator member.
- may be power driven.

Tag punch system for punching symbols into tags.

Details therefor, e.g. security features, locking members, etc.



A01K 11/005

[N: Branding or tattooing devices for animals]

Definition statement

This subclass/group covers:

Tattooing devices; small-holes punching devices.

- details therefor, e.g. needles, tattooing paste, etc.

Branding devices, e.g. branding iron.

Marking by means of freezing.

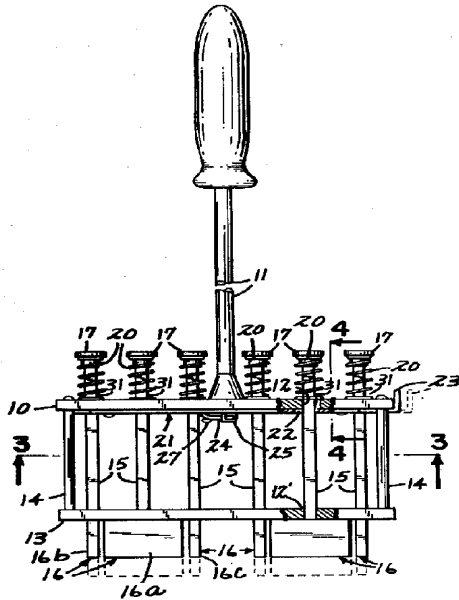
Marking by means of stamping or dying.

Marking devices for detection of mating, e.g. oestrus detector device, etc.

Marking fluids.

Marking carcasses in the above ways.

Marking may be automatic, by explosives (e.g. tattoo-gun), by hand, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Marking poultry or other birds	A01K 35/00
Marking carcasses for splitting	A22B 5/20
Marking meat	A22C 17/10
Tattooing in general	A61M37/00X

A01K 11/006

[N: Automatic identification systems for animals, e.g. electronic devices, transponders for animals (identification systems for access to feeding pens [A01K 1/0209](#); ear tags with electronic identification means [A01K 11/004](#))]

Definition statement

This subclass/group covers:

Devices for electronic livestock data collection, e.g. transponder systems.

Automatic coding and/or decoding of identity information, also registration of additional information, e.g. on milk yield, weight, etc.

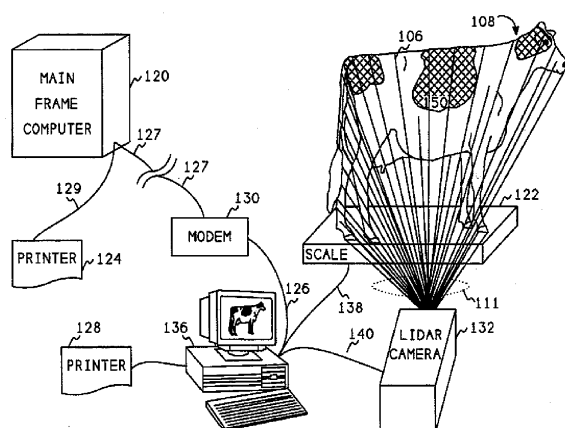
Transmission of such information, e.g. by microwaves, radio frequency, etc.

Processing of such information, e.g. the display.

System may include automatic feeding.

Manual intervention may be involved, e.g. for actuating checking device.

Methods for locating animals.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding pens for pigs or cattle	A01K 1/0209
With mechanisms for delivery of measured doses	A01K 5/0275
Other apparatus for animal husbandry	A01K 29/00
Implantable transmitters	A61B 5/076
Identification	A61B5/10H
Sorting	B07C 5/36 , G01S 13/00
Radar	G01S 15/00
Access control involving ID tag	G07C 9/00007

A01K 11/007

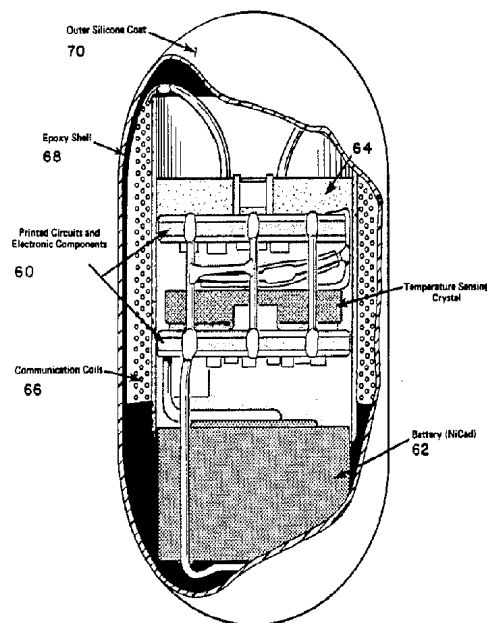
[N: Boluses]

Definition statement

This subclass/group covers:

Devices, mostly placed or inserted in the stomach of a ruminant animal, for determining the physical state of an animal, and/or identifying an animal.

Monitoring/identification system therefor.



A01K 13/00

Devices for grooming or caring of animals (scissors [B26B](#)); Fetlock rings (bandages, poultices [A61D](#)); Tail-holders (as part of the harness [B68B 5/04](#)); Devices for preventing crib-biting; Washing devices (milking machine accessories for treatment of udders or teats [A01J 7/04](#); for medical purposes [A61D 11/00](#)); Protection against weather conditions or insects

Definition statement

This subclass/group covers:

Applying substances onto and/or into animal's bodies, not covered by other groups, nor restricted to veterinary art.

Improving the comfort of an animal, by means of cooling, heating, watering devices, blowing air, etc.

Grooming stands.

Devices for preventing unhealthy behaviour of animals, e.g. anti-crib-biting devices.

Improving atmosphere by, e.g. electrical field.

U.S. Patent Apr. 17, 2001 Sheet 1 of 4 US 6,217,437 B1

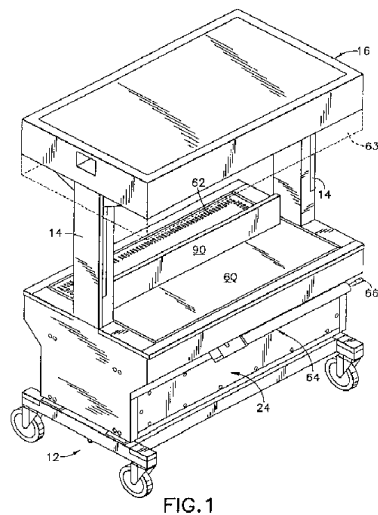


FIG. 1

Informative references

Attention is drawn to the following places, which may be of interest for search:

Stable partitions	A01K 1/0005
Air-conditioning	A01K 1/0047
Floor coverings	A01K 1/015
Feeding pens for pigs or cattle	A01K 1/0209
Tethering-poles or the like	A01K 1/04
Devices for fastening animals	A01K 1/06
Devices for taming animals	A01K 15/00
Training or exercise equipment	A01K 15/02

Dehorers: Horn trainers	A01K 17/00
Other apparatus for animal husbandry	A01K 29/00
Scissors	B26B
Fetlock rings (bandages, poultices)	A61D
Tail-holders (as part of the harness)	B68B 5/04
Milking machine accessories for treatment of udders/teats	A01L 7/04
Farriers stands	A01L 13/00
Care of hoofs	A01L 15/00
Slaughtering pens; conveyors	A22B 1/00
Veterinary cares	A61D 1/00

A01K 13/001

[N: Washing, cleaning, or drying devices (for veterinary purposes [A61D 7/00](#), [A61D 11/00](#))]

Definition statement

This subclass/group covers:

Devices for cleaning, washing and/or drying animals.

may be automatic.

may be stationary, transportable or portable.

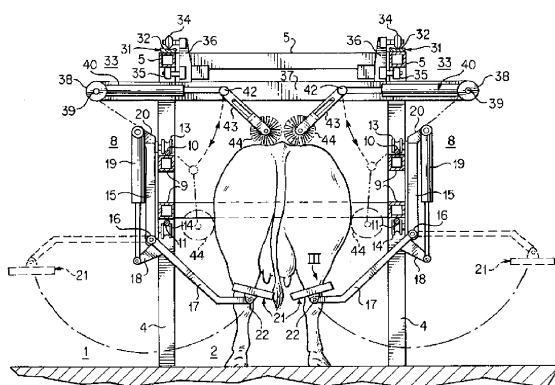
may include brushes.

The cleaning may include disinfecting, deparasitation.

Bathing devices for animals other than birds.

(Sheep-) dipping devices.

Sand-bathing devices, e.g. for chinchillas



Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for use in keeping domestic animals	A01K 1/035
Devices for grooming or caring of animals	A01K 13/00
Curry-combs; Shearing sheep chemically	A01K 13/002
Training or exercise equipment	A01K 15/02
Housing birds	A01K 31/00
Other aviculture appliances	A01K 45/00
Applying medication upon animals	A61D 7/00
Medical washing devices	A61D 11/00
Hoof cleaners	A01L 11/00
Udder-cleaning with milking machines	A01J 7/00

A01K 13/002

[N: Curry-combs; Shearing sheep chemically (shearing sheep [B26B 19/24](#))]

Definition statement

This subclass/group covers:

Animal grooming devices, e.g. combs, scrapers or brushes.

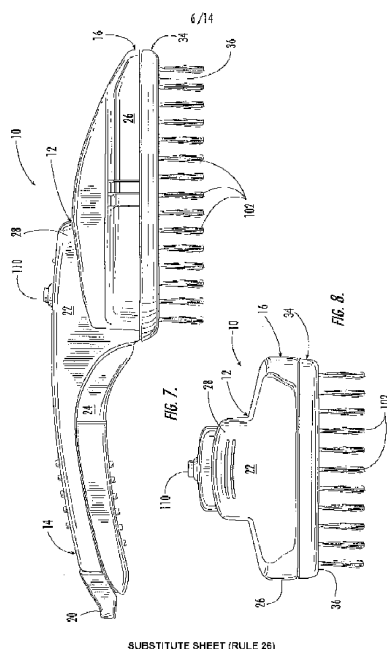
- may be hand held or automatic.
- may be combined with suction devices or blowers.
- may include dispensing methods, for e.g. medicine, pesticides, etc.

Application may be for parts of the body other than the skin or fur, e.g. toothbrushes.

Chemical sheep shearing, e.g. by applying coatings.

WO 02/11526

PCT/US01/24108



Informative references

Attention is drawn to the following places, which may be of interest for search:

Washing, cleaning, or drying devices	A01K 13/001
Devices for applying insecticides or medication	A01K 13/003
Scraping carcasses; coating carcasses	A22B 5/08

A01K 13/003

[N: Devices for applying insecticides or medication ([A01K 27/005](#) takes precedence; for veterinary purposes [A61D](#))]

Definition statement

This subclass/group covers:

Devices for applying insecticides, disinfectant or medication to animal skin.
(outside or in chambers)

- mostly by means of spraying, but also dipping or brushing.
- may be combined with feeding device.

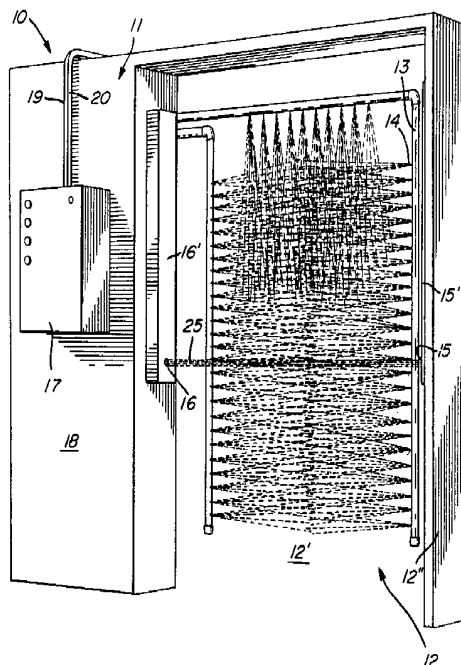
Dispensing material may be powder or fluid.

Animal collar or pendant with pesticide.

Dust bags, e.g. for dogs.

Animal oilers without scratching action.

Fly traps.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Marking of animals	A01K 11/00
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Washing, cleaning, or drying devices	A01K 13/001
Curry-combs; Shearing sheep chemically	A01K 13/002
Rubbing-posts	A01K 13/004
Training or exercise equipment	A01K 15/02
Leads or collars	A01K 27/00
Insecticides	A01N 25/00
Applying medication upon animals	A61D 7/00

A01K 13/004

[N: Rubbing-posts]

Definition statement

This subclass/group covers:

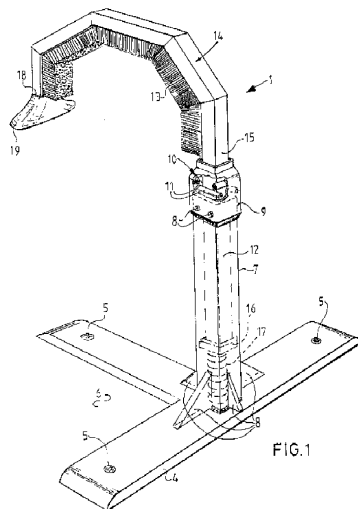
Devices enabling animals to rub and scratch themselves.

May be automatic (motor action), computer regulated.

may be actuated by animal.

Dispensers for fluid or powder may be incorporated, but scratching is essential.

Doors with brushes incorporated, e.g. for cats.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Housing for domestic or laboratory animals	A01K 1/03
Curry-combs; Shearing sheep chemically	A01K 13/002
Devices for applying insecticides or medication	A01K 13/003
Scratching devices	A01K 15/024

A01K 13/005

[N: Tail holders]

Definition statement

This subclass/group covers:

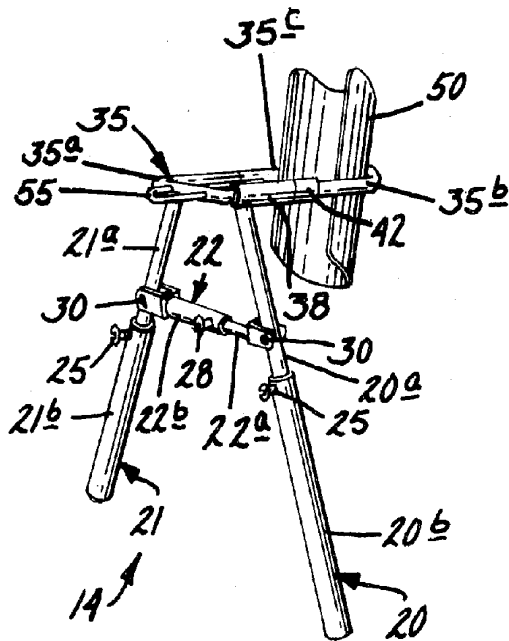
Tail holders, mostly for cows or horses.

- may be attachable to animal or wall of stable.

- may be disposable.

Tail lengthener for horses.

Anti-kick apparatus for cows.



A01K 13/006

[N: Protective coverings (shoeing of animals [A01L](#); for veterinary purposes [A61D](#))]

Definition statement

This subclass/group covers:

Protective garment or blankets for animals, e.g. support garment.

- may be heat retaining, heat-reflecting, bullet-proof, etc.
- may leave parts of the body open for treatment.
- may be sprayed-on films, e.g. naked sheep.

Devices for movement restriction.

Protective footwear and leg protectors for animals.

Udder and teat protectors.

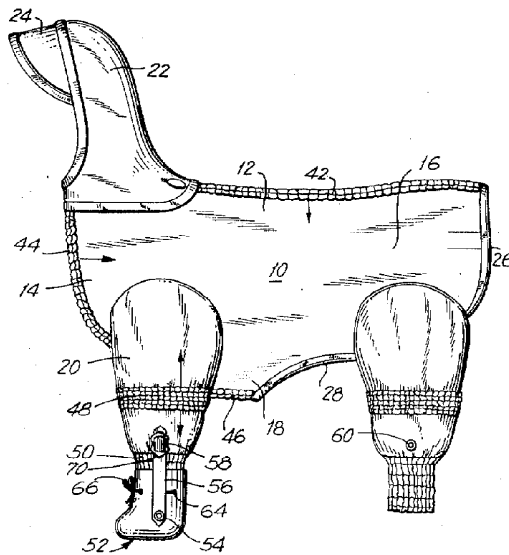
Animal tail control/ protection devices.

Protective devices for scaring insects, e.g. fringes, face mask, etc.

Collars for preventing animals from licking/ biting e.g. their wounds.

Devices for protecting limbs or other parts from knocking against each other.

Artificial horns, horn protectors.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for grooming or caring of animals	A01K 13/00
Washing, cleaning, or drying devices	A01K 13/001
Curry-combs; Shearing sheep chemically	A01K 13/002
Devices for impeding movement, passage through fencing	A01K 15/04
Devices for assisting or preventing mating	A01K 21/00
Constraining birds	A01K 37/00
Other aviculture appliances	A01K 45/00
Elastic soles or covers for hoofs	A01L 5/00 , A01L 7/02
Blankets	A47G 9/00

Bottom pads or clothes for saddles	B68C 1/12
Protective covers	B68C 5/00
Coating for dehairing	A22B 5/08
Veterinary bandages	A61D 9/00

A01K 13/007

[N: Leg, hoof or foot protectors]

Definition statement

This subclass/group covers:

Foot protection systems for animals.

Hoof shoe, may be permanently or temporarily attachable.

- may be elevated, elastic, etc.

Knee protection systems, e.g. knee caps.

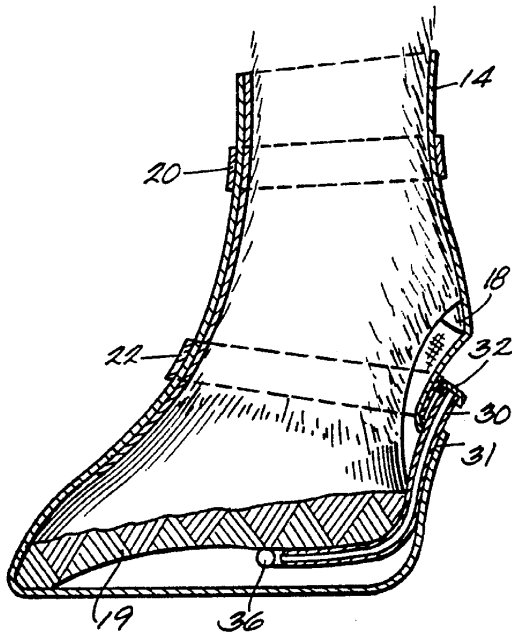
Ankle protection systems.

Claw protection cover for cats.

Devices may include protection against insects.

Sheets for cooling the legs.

Boots for dogs and cats.



A01K 13/008

[N: Horse blankets]

Definition statement

This subclass/group covers:

Blankets, mostly for horses.

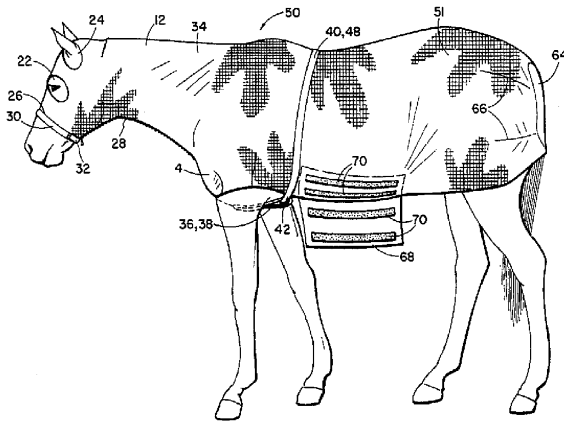
- may be heat-reflective, waterproof, breathable, heat retaining, windproof, etc.

Details therefor, e.g. fastening means, etc.

Therapeutic blankets, e.g. magnetic blanket.

Blankets may contain an anti-rubbing devices.

Blankets may have anti-insect cover.



A01K 14/00

**Removing the fleece from live sheep or similar animal
(hand-held cutting tools [B26B](#))**

Definition statement

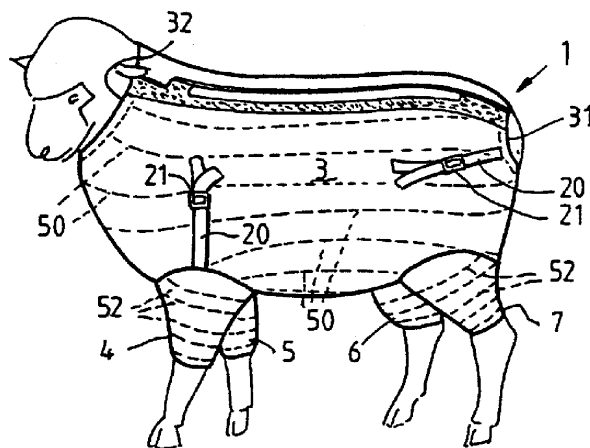
This subclass/group covers:

Removing the fleece from live sheep or similar animals, by means of a net, e.g. a fleece retention coat.

Sheep-shearing apparatus.

Wool harvesting systems.

Systems for processing waste products of wool harvesting.



A01K 15/00

Devices for taming animals, e.g. nose-rings, hobbles; Devices for overturning animals in general; Training equipment;

Covering boxes ([N: animal holding devices [A01K 1/0613](#)]; devices for veterinary purposes [A61D 3/00](#))

Definition statement

This subclass/group covers:

Devices for handling/ restraining animals.

- may be movable, portable, rotatable, etc.

Animal catching devices.

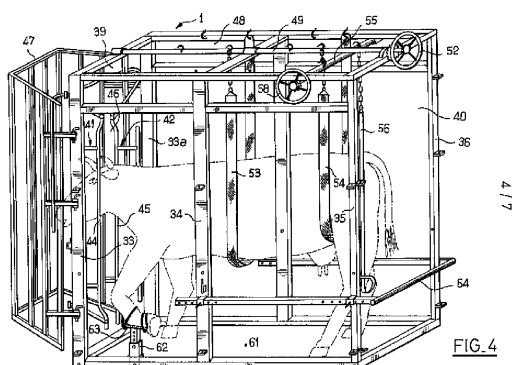
Animal carrying devices.

Restraining devices for research table.

Devices may include lifting mechanism.

Sheep rollover devices.

Neck / Head holding devices.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Animal holding devices	A01K 1/0613
Devices for veterinary purposes	A61D 3/00

A01K 15/003

[N: Nose-rings; Fastening tools therefor, Catching or driving equipment]

Definition statement

This subclass/group covers:

Nose-rings, may include e.g. anti-bite devices, fastenings, etc.

Devices for applying a nose-ring.

Devices for catching or holding any animals, may be hand-held.

Devices for controlling animals by mainly squeezing a part of the body, mainly the nose, e.g. animal twitch.

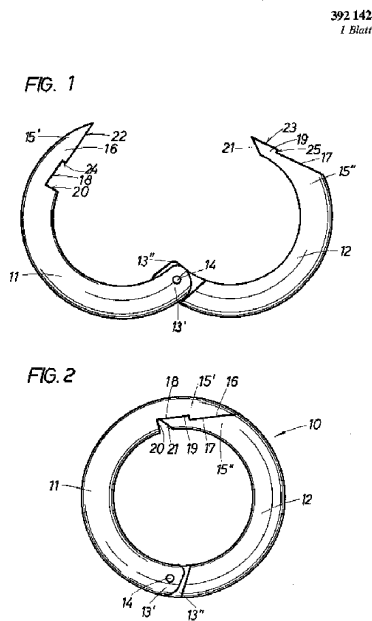
(Cattle) pods, non-electrical.

Lassos. Holders and containers therefor, etc.

Bull halters.

Devices may be vehicle-mounted, or combined with trolleys.

NB. Not included are: (movable) confinement devices



Informative references

Attention is drawn to the following places, which may be of interest for search:

Stable partitions	A01K 1/0005
Devices for immobilisation of animals	A01K 1/0613

Pasturing equipment	A01K 3/00
Marking of animals	A01K 11/00
Devices for impeding passage of animals under fences	A01K 15/006
Devices for impeding movement	A01K 15/04
Gaffs	A01K 97/14
Traps	A01M 23/00
Driving devices in slaughterhouses	A22B 7/00
Noose equipment. Boathooks and the like	B63B 21/54

A01K 15/006

[N: Devices for impeding passage of animals under fences, preventing butting or the like]

Definition statement

This subclass/group covers:

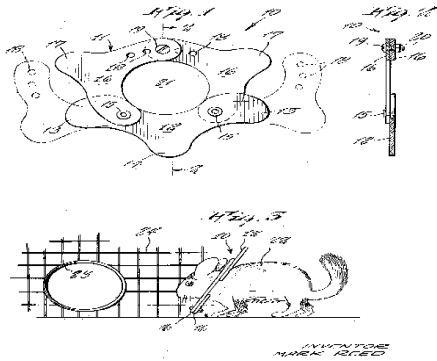
Devices for restraining animals from attacking.

Movement control devices for animals, e.g. restraining devices for neck and head, etc.

Animal pokes.

Animal yokes.

Collars for animals, for restraining their movement, e.g. against biting, licking their own skin, etc.



A01K 15/02

Training or exercise equipment ([A01K 15/04](#) takes precedence); [N: Electric shock devices (circuits therefor [H03K 3/537](#)); Toys, e.g. for pets]

Definition statement

This subclass/group covers:

Devices for training and/or exercising animals, e.g. a leash, collar, etc.

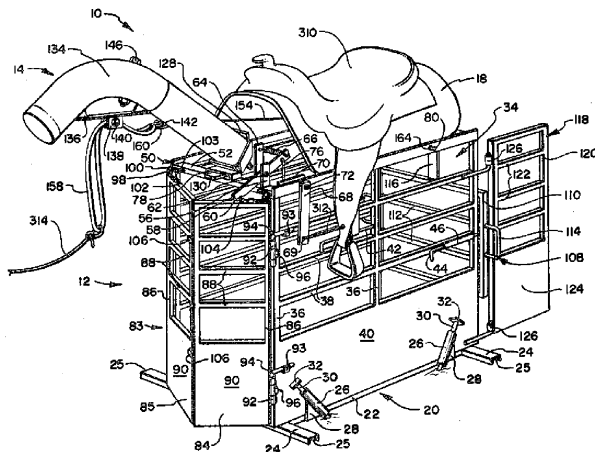
Devices for entertaining animals, e.g. toys, may be eatable.

Details therefor, e.g. sensors.

Training devices for cowboys, e.g. mechanical calves.

Anti-butting devices, animal repellent devices, cow trainers, chemical agents, treadmills, electric prods, radio/satellite control, etc.

Devices for protecting birds against other animals, e.g. cats, squirrels.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Stable partitions	A01K 1/0005
Cat trays; Dog urinals	A01K 1/0107
Devices for use in keeping domestic animals	A01K 1/035
Grids for preventing cattle from straying	A01K 3/002
Electrified wire fencing	A01K 3/005
With timing mechanism	A01K 5/0291
Automatic identification systems for animals	A01K 11/006
Devices for grooming or caring of animals	A01K 13/00
Washing, cleaning or drying devices	A01K 13/001
Nose-rings; Fastening tools therefor	A01K 15/003
Scratching devices for cats	A01K 15/024
Leads or collars	A01K 27/00
Other apparatus for animal husbandry	A01K 29/00
Other aviculture appliances	A01K 45/00
Methods or means of catching fish in bulk not provided	A01K 79/00
Scaring animals	A01M 29/00
Water therapy	A61D 11/00
Treadmills	A61H 9/00
Racing equipment	A63K 1/00

Slaughterhouse drive corridors	A22B 7/00
Electric weapon sticks	F41B 15/04

A01K 15/021

[N: Electronic devices specially adapted for dogs or cats]

Definition statement

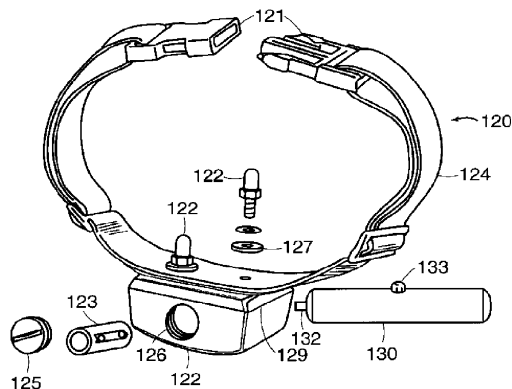
This subclass/group covers:

Training apparatus, by means of electronic devices specially adapted for dogs or cats, e.g. a collar.

- may operate by means of electric shocks, vibrations, sound, etc.
- may include pet identification system, e.g. Global Positioning System.

Details therefor, e.g. remote control, etc.

Devices for controlling animal behaviour.



A01K 15/022

[N: Anti-barking devices]

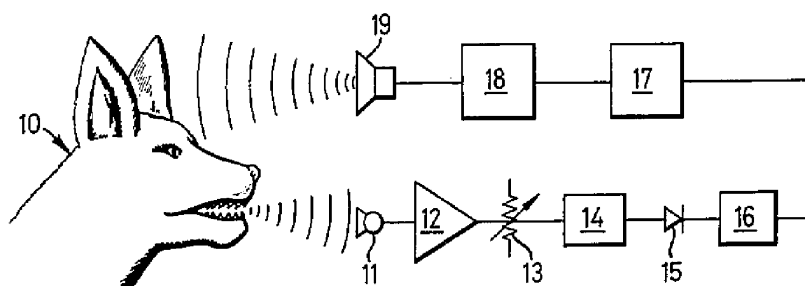
Definition statement

This subclass/group covers:

Anti-bark devices.

By means of collars including shock, cold fluid, high frequency devices, etc.

Details therefor, e.g. vibration sensor, etc.



A01K 15/023

[N: Anti-evasion devices]

Definition statement

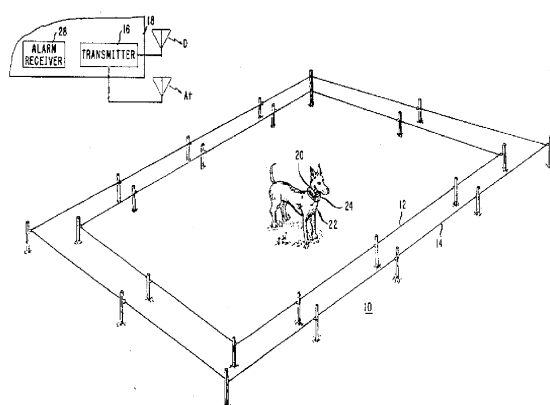
This subclass/group covers:

Satellite animal confinement systems, e.g. global positioning. Electronic animal confinement systems, ultrasonic animal deterrent system, echo-ranging electronic boundary system, etc.

Animal repelling devices.

Devices may include bark-inhibitor.

Details therefor, collars in combination with an anti-evasion device.



A01K 15/024

[N: Scratching devices, e.g. for cats]

Definition statement

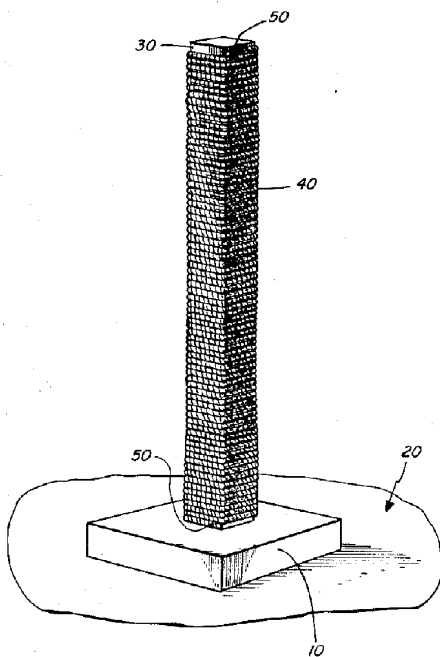
This subclass/group covers:

Scratching devices, e.g. for cats.

- may be attachable to wall, door, furniture, etc.
- may include cat housing, feeding device, toys, perch, etc.

Climbing posts including scratching devices.

Litter boxes with abrasive surface.



A01K 15/025

[N: Toys, e.g. for chewing]

Definition statement

This subclass/group covers:

Toys for pets, may be edible.

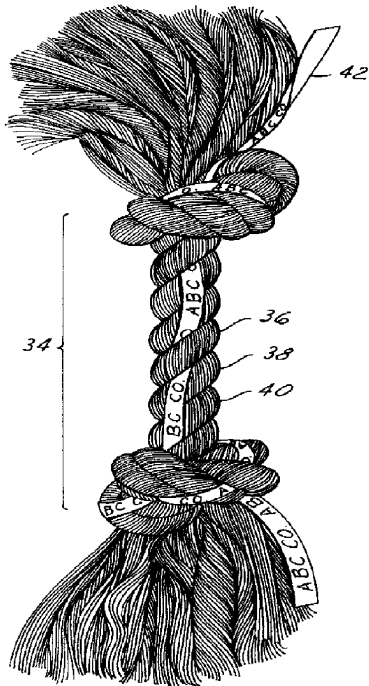
Toys may be attachable to wall.

Toys may be scented, spinning, reelable, etc.

Toys may include food dispensing system, sound device, (moving) light beam, etc.

Crawling tube for small pets.

Toys may include exercise device.



A01K 15/027

[N: Exercising equipment, e.g. tread mills, carousels (equipment for racing or riding sports events [A63K](#))]

Definition statement

This subclass/group covers:

Animal training devices (mostly for horses), by means of endless belts, treadmills, etc.

- may include monitoring systems.

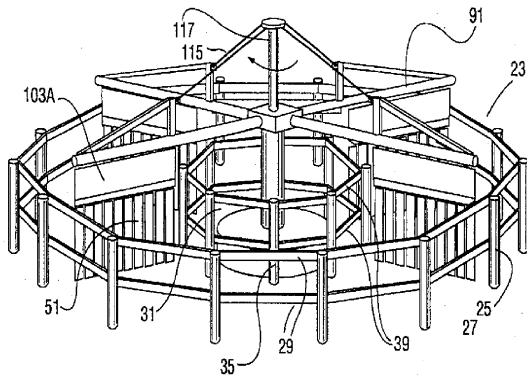
Details therefor, e.g. detachable harness assembly, etc.

Running wheel for small animals.

Devices may be attachable to vehicle, transportable, etc.

Dog jumping devices.

Swimming pools for training animals.



A01K 15/028

[N: Cow trainers]

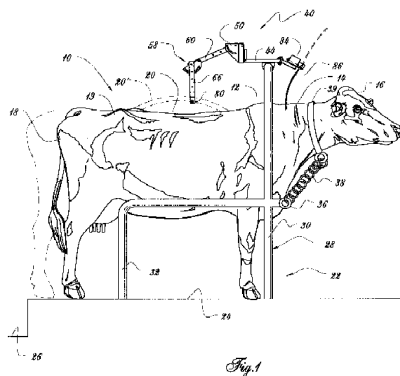
Definition statement

This subclass/group covers:

Cow training devices for in stables. Mostly cow positioning devices, e.g. training cattle to step back when defecating, etc.

- by means of electric cow trainer, barrier, pressure, etc.

U.S. Patent Jun. 23, 2001 Sheet 1 of 3 US 6,176,203 B1



A01K 15/04

Devices for impeding movement; Devices for impeding

passage through fencing, [N: e.g. hobbles or the like; Anti-kicking devices (impeding passage under fences [A01K 15/006](#))]

Definition statement

This subclass/group covers:

Anti-kicking devices for cows.

Restraining devices, e.g. grooming restraining device for dogs, etc.

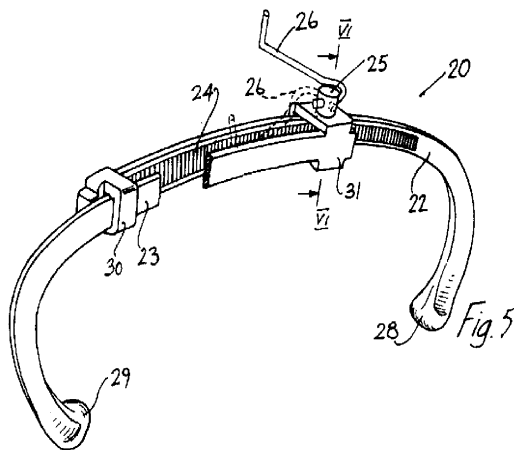
Animal harnesses.

(Dog) leash attachments, e.g. to vehicle.

Passage through fencing, e.g. one way animal gate, fence security system, etc.

Cuffs for restraining animals, e.g. leg cuffs.

Head restraining devices.



A01K 17/00

Dehorner; Horn trainers

Definition statement

This subclass/group covers:

Dehorning or preventing horns from growing. Treatment may be chemical or thermal.

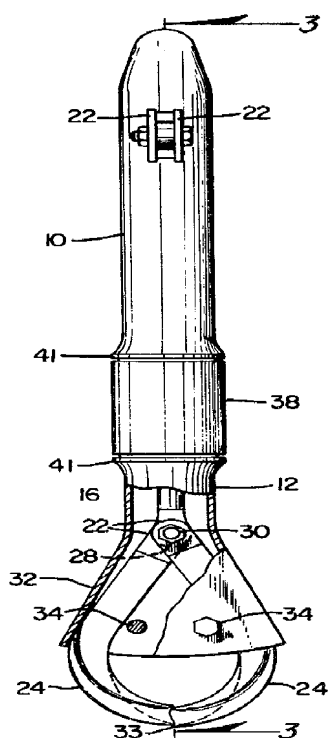
- by means of electric dehorning.
- by means of a heating device, e.g. gas-fired heating device.
- by means of freeze-branding.

- by means of cutting, e.g. for slaughtered animals.

Changing shape of horns, e.g. by weights.

Details therefor, e.g. stencils or holders.

Cutting claws, e.g. for birds.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Debeaking etc., of birds	A61D 1/005
Cropping tails or ears	A61D 1/04
Trimming hoofs	A01L 15/00
Cutting bones	A22B 5/20
Bone-shears; Bone-crushers	A22C 17/06

A01K 19/00

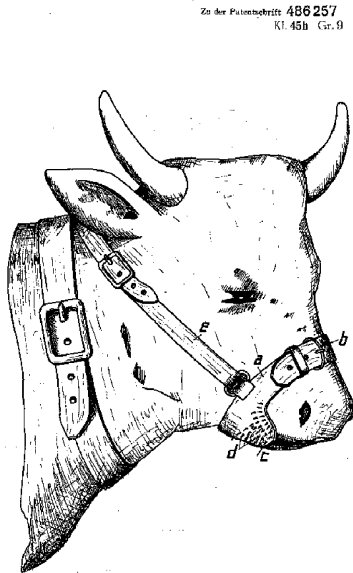
Weaning apparatus

Definition statement

This subclass/group covers:

Anti-sucking devices for cattle, may be attached to mother animal or her young, e.g. muzzles, halters, etc.

may operate by means of electric chocks or contains sharp elements.



A01K 21/00

Devices for assisting or preventing mating (covering boxes
[A01K 15/00](#))

Definition statement

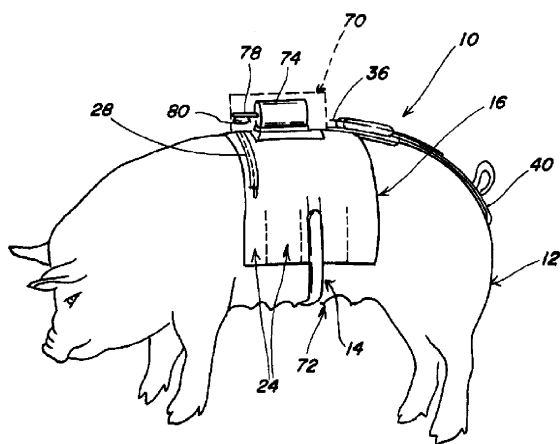
This subclass/group covers:

Devices for preventing mating, e.g. harness for dogs, bulls, rabbits, etc.

Diapers for female dogs.

Stimulation of ovulation methods and devices.

Means for guiding a boar past sows, e.g. boar cart.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Automatic devices	A01K 7/02
Protective coverings	A01K 13/006
Devices for taming animals	A01K 15/00
Manure or urine pouches	A01K 23/00
Other apparatus for animal husbandry	A01K 29/00

A01K 23/00

Manure or urine pouches [N: (picking up dog excrement from the ground [E01H 1/1206](#))]

Definition statement

This subclass/group covers:

Devices for receiving excrements from animals, either fastened on the animal, or situated immediately close to it.

Harnesses for attaching waste collecting containers, bags, sacks, etc. to animal.

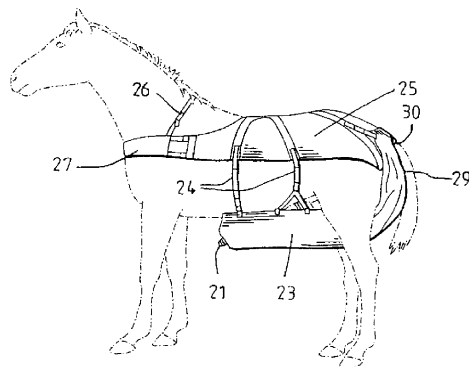
Anti-splash shields for dogs.

Details therefor, e.g. bags, sacks, holders, etc.

Harness may also serve for protection against mating, etc.

Devices for taking samples of excrements of animals.

Diapers for animals.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Cat trays; Dog urinals; Toilets for pets	A01K 1/0107
Protective coverings	A01K 13/006
Devices for assisting or preventing mating	A01K 21/00
Picking up excrements from ground	E01H 1/1206

A01K 23/005

[N: Manure or urine collecting devices used independently from the animal, i.e. not worn by the animal but operated by a person]

Definition statement

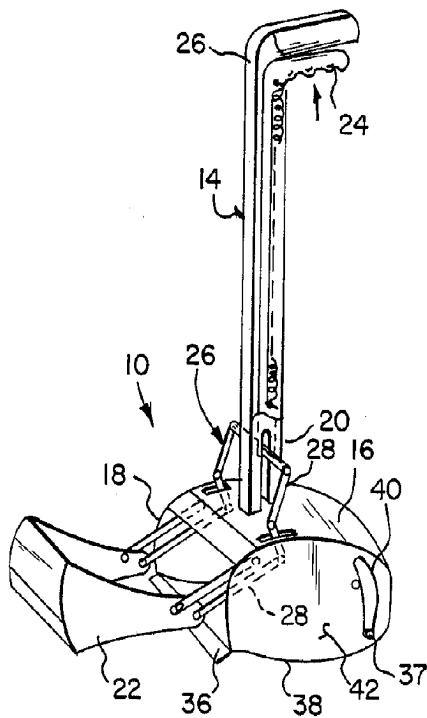
This subclass/group covers:

Manure collecting devices used independently from the animal, e.g. waste scoop devices.

Pet excrement scoop, may be in combination with a (plastic) bag.

- may comprise a elongated handle.
- pick-up waste bag, used without any tools.

Leash mounted storage device.



A01K 25/00

Muzzles

Definition statement

This subclass/group covers:

Devices for encapsulating an animals head, mostly for dogs.

- may include a control and leash combination for e.g. training, guiding, restraining a dog.
- may be remotely releasable.

Grazing regulators for cows.

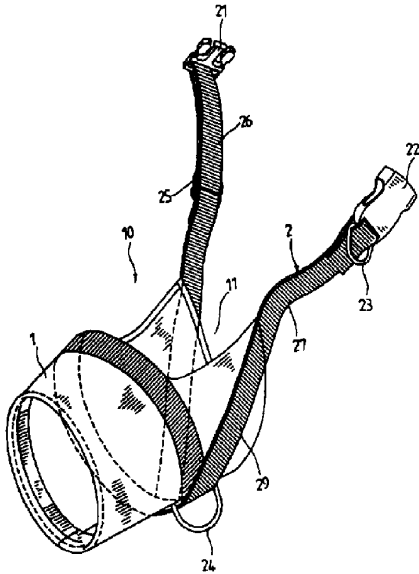


Fig. 4

A01K 27/00

Leads or collars, e.g. for dogs (devices specially adapted or mounted for storing and repeatedly paying-out and re-storing lengths of material [B65H 75/34](#))

Definition statement

This subclass/group covers:

Collars mostly for dogs, or for similar animals.

- may contain anti-parasite material.
- may be in combination with leads or harnesses ([A01K 15/04](#)).

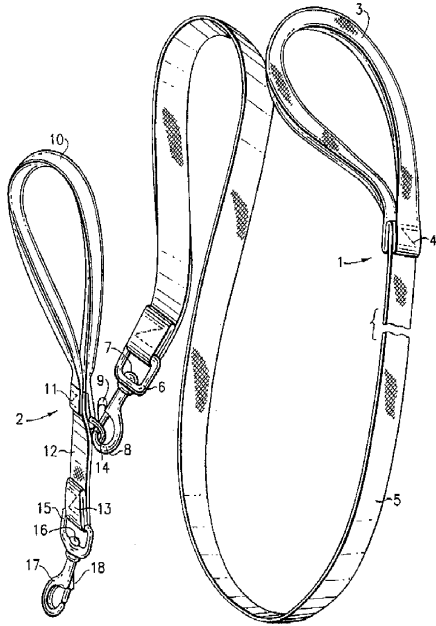
Multiple animal leashes.

Details therefor, e.g. closure members, dampers, safety connections, etc.

Lead-storing or -dispensing means, e.g. adjustable length leash.

Devices may be attachable to vehicles, walls, etc.

Devices may be intended for children.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Tethering-poles or the like	A01K 1/04
Devices for fastening animals, e.g. halters	A01K 1/06
Chain fastenings	A01K 1/064
Marking of animals	A01K 11/00
Devices for applying insecticides or medication	A01K 13/003
Tail holders	A01K 13/005
Nose-rings; Fastening tools therefor	A01K 15/003
Training or exercise equipment	A01K 15/02
Devices for impeding movement	A01K 15/04
Muzzles	A01K 25/00
Pest-repellants	A01N 25/00
Safety belts for dogs in cars	B60R21/10H3

Harnesses	B68B 1/00
Retractable leads	B65H 75/34

A01K 27/003

[N: Retractable, leashes]

Definition statement

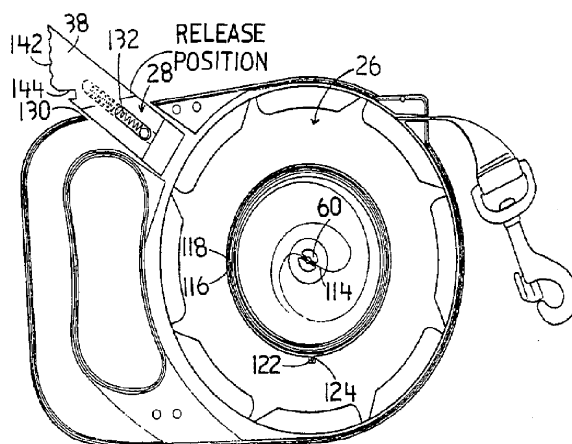
This subclass/group covers:

Devices for retractable leashes.

- may include waste disposal bag dispenser.

Details therefor, e.g. locking/brake mechanism, retractor, etc.

Compact dog leash, may be attached to collar of dog or concealed in hollow walking stick.



A01K 27/005

[N: Quick-couplings, safety-couplings or shock-absorbing devices between leash and collar]

Definition statement

This subclass/group covers:

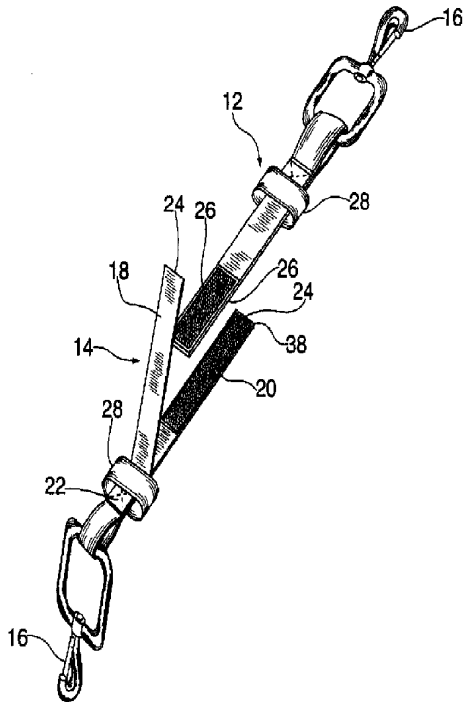
Shock absorbing devices, by means of e.g. stretching leash, extensible mechanism, elastic section, etc.

Break away assembly.

Quick release leash, one hand operated dog leash.

- locking systems.

Shock absorbing lead grip.



A01K 27/006

[N: With light-emitting, or other ornamental devices]

Definition statement

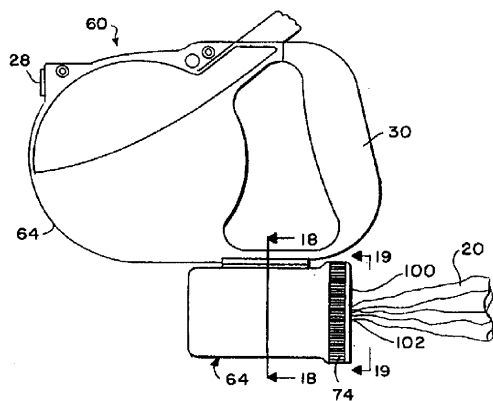
This subclass/group covers:

Dog leashes or collars with light-emitting, or other ornamental devices.

- may include e.g. a container, identification device, bag dispenser mechanism, decorations, flashlight, etc.

Leash and collar may be illuminating, water-resistant, etc.

Collar may contain flea-repelling material or insecticide, etc.



A01K 27/007

[N: With insecticide-dispensing means]

Definition statement

This subclass/group covers:

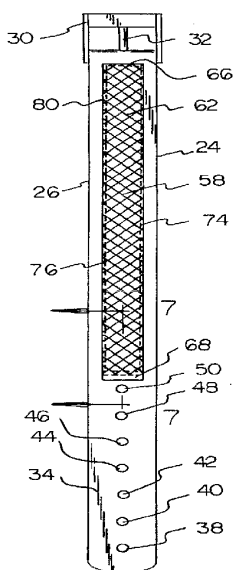
Collars (or ear-tags) with protect against fleas, ticks, lice and other insects/parasites.

- may be naturally (herbs), chemically or by entrapment.

Flea-repelling pet accessory, e.g. a pet toy.

(Disposable) pendants, may be deodorizing, insect-repelling, etc.

Drug or insect-repelling dispensing devices, may be attachable to collar.



A01K 27/009

[N: With electric-shock, magnetic- or radio-waves emitting devices]

Definition statement

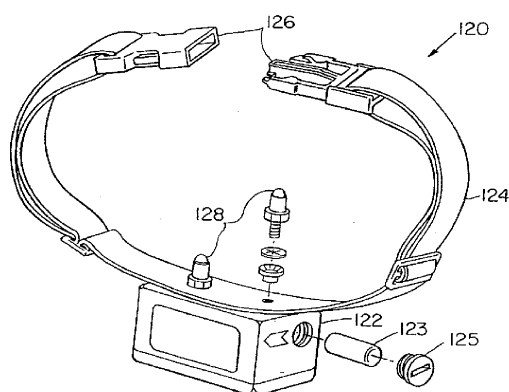
This subclass/group covers:

Devices for controlling animal behaviour with electric-shock collars.

Collars may include therapeutic devices, by means of magnets.

Devices may work with remote control.

Collars may include identification device, pet locator, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Electronic training and confining equipment	A01K 15/021
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A01K 29/00

Other apparatus for animal husbandry [N: (detecting birth of animals [A61D 17/00](#))]

Definition statement

This subclass/group covers:

Detecting heat, mating, pregnancy, birth, or other particular conditions of animals.

Administration or planning, for breeding activities.

Physical preparation for breeding, e.g. irradiation of sperm or eggs.

Transporting or loading animals, e.g. a ramp, other than for birds and fish and not covered elsewhere.

Administration or management of herds in general.

Measuring physical properties of animals, e.g. performance testing.

Snake venom milking.

Sorting of animals, e.g. by size, weight (not covered elsewhere).

Influencing biological activity, (not covered elsewhere).

Monitoring or measuring activity of animals. (including fish)

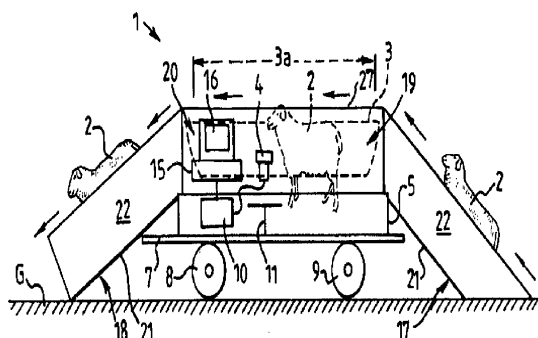
Procedures or recipes for feeding animals, e.g. for rapid growth.

Weighing animals.

Detecting mating by marking devices actuated by animals.

Anti-theft devices.

Animal-rescue devices for swimming pools.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for use in keeping domestic animals	A01K 1/035
Devices for immobilisation or restraint of animals	A01K 1/0613
With mechanisms for delivery of measured doses	A01K 5/0275
Branding or tattooing devices for animals	A01K 11/005

Automatic identification systems for animals	A01K 11/006
Other aviculture appliances	A01K 45/00
Culture of fish, catfish, lobster, sponges, pearls or the like	A01K 61/00
Receptacles for live fish	A01K 63/00
Breeding vertebrates	A01K 67/02
Obstetrical devices	A61D 1/08
Detecting birth	A61D 17/00
Animal transport vehicles	B60P 3/04

A01K 29/005

[N: Monitoring or measuring activity, e.g. detecting heat or mating]

Definition statement

This subclass/group covers:

Livestock data collection/receiving systems.

Devices for monitoring behaviour of animals.

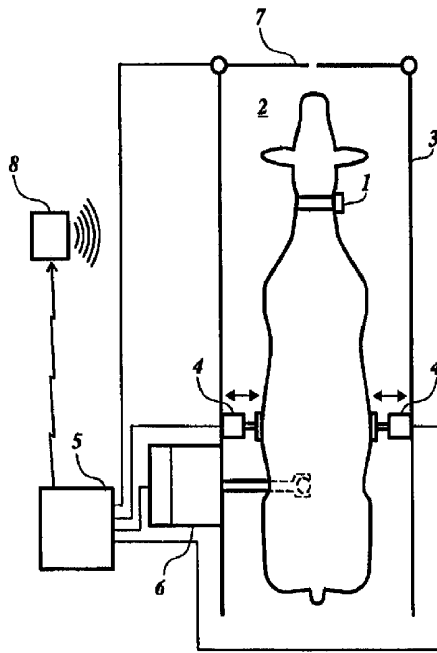
Devices for monitoring feeding behaviour of animals.

Devices for monitoring movement/ activity of animals.

Devices for monitoring animal health, e.g. temperature, weight, etc.

Sensors for detecting movement.

Identification method and apparatus.



A01K 31/00

Housing birds

Definition statement

This subclass/group covers:

Installations or devices for housing birds, not covered elsewhere, or not specified.

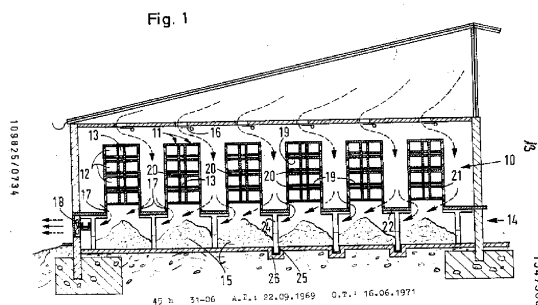
Poultry houses for battery or free-floor rearing, not specified.

Bird-washing (disinfecting) devices.

General aspect of mass-rearing of poultry. (housing aspect)

Buildings may include heating, cooling and ventilating means.

Curtain control devices for poultry houses.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Housing animals; Equipment therefor	A01K 1/00
Air-conditioning	A01K 1/0047
Dropping-boards; Devices for removing excrement	A01K 31/04
Perches	A01K 31/12
Chicken coops or houses	A01K 31/18
Poultry runs	A01K 31/22
Buildings for agricultural purposes	E04H 5/08

A01K 31/002

[N: Poultry cages, e.g. transport boxes (poultry transport [A01K 45/005](#))]

Definition statement

This subclass/group covers:

Cages or boxes for transporting birds or other small animals.

may be collapsible, foldable, portable, mountable on vehicle, etc.

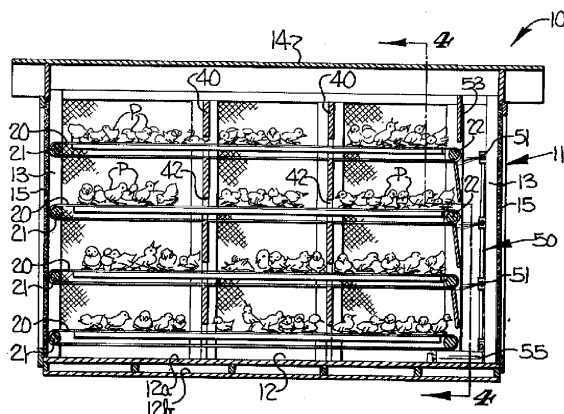
may include feeding and/or drinking devices.

may be adapted for shipping, shipping containers.

Cages may be arranged in stacks or rigs (shelf like containers).

Other poultry cages, not included for battery utilisation.

Means and devices for (un-) loading poultry.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Battery breeding cages, with or without auxiliary...	A01K 31/005
Transportable cages	A01K 31/07
Collapsible cages	A01K 31/08
Other aviculture appliances	A01K 45/00
Containers for animals	B65D 85/50

A01K 31/005

[N: Battery breeding cages, with or without auxiliary features, e.g. feeding, watering, demanuring, heating, ventilation]

Definition statement

This subclass/group covers:

Battery cage systems for breeding poultry, e.g. broilers.

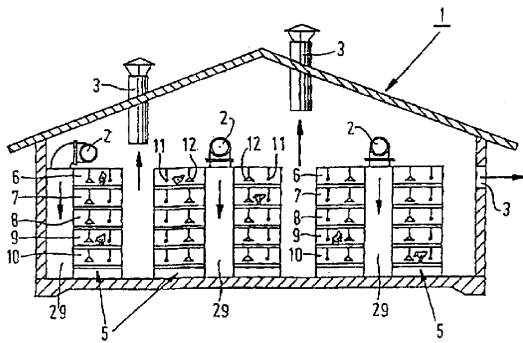
- may be transportable, e.g. to slaughterhouse.

Details of such system, e.g. feeding/drinking devices, ventilation, egg

collecting means, etc.

Battery cages may be suitable for breeding, rearing and fattening, e.g. growing aspect.

Building structure may be included.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Pigsties; Dog-kennels; Rabbit-hutches or the like	A01K 1/02
Housings for domestic or laboratory animals	A01K 1/03
Poultry-cages	A01K 31/005
Floors	A01K 31/007
Dropping-boards; Devices for removing excrement	A01K 31/04
Laying-nests for poultry	A01K 31/16
Chicken coops or houses	A01K 31/18
Feeding devices	A01K 39/01

A01K 31/007

[N: Floors (for stables [A01K 1/015](#))]

Definition statement

This subclass/group covers:

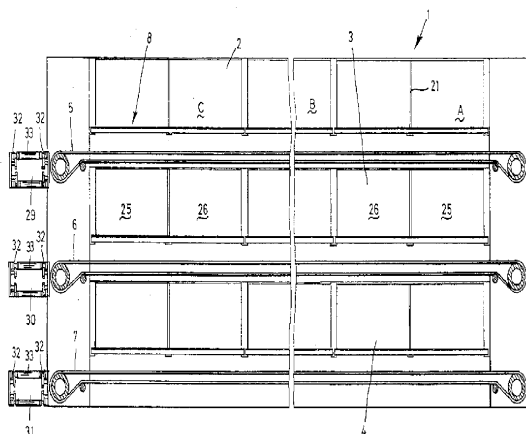
Flooring systems for use in raising poultry, e.g. battery cages, transport cages, etc.

- may include methods for processing manure.

Poultry nests may be included.

Systems for preventing breast blisters, swollen hocks, etc.

Floors specially adapted for egg laying poultry.



A01K 31/02

Door appliances; Automatic door-openers ([N: laying-nests [A01K 31/16](#)]; counters for specific applications [G07C 9/00](#))

Definition statement

This subclass/group covers:

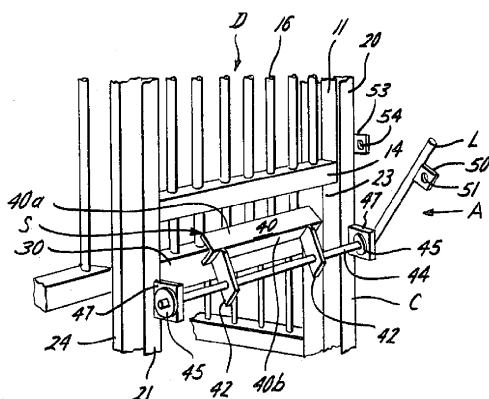
Door appliances for poultry housings, e.g. return-gate, latch, etc.

may be time-controlled, automatic, etc.

Locking means for poultry cages.

Trap doors, may be automatically closing.

Means for preventing entrance of e.g. a fox.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Trap doors	A01K 31/10
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A01K 31/04

Dropping-boards; Devices for removing excrement

Definition statement

This subclass/group covers:

Devices for removing excrements from poultry housings, (e.g. batteries, single cages).

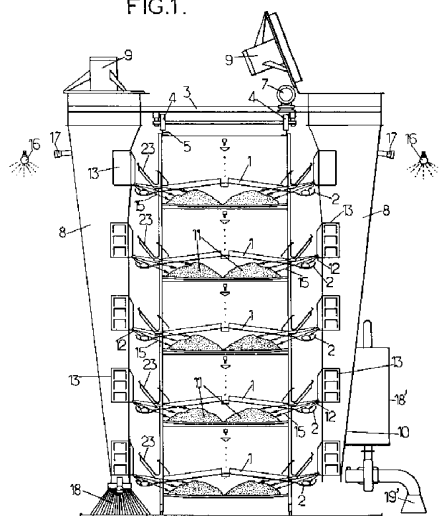
- may be collecting, drying, or otherwise treating excrements from cage or poultry house.
- may include conveyor belts, scrapers, blowers for drying air, water flushers, heating means, liquid sprayers, etc.

Bedding material, collecting and dispensing means therefor, recycling methods.

Drying blowers may be in combination with ventilation means or heating.

Vehicles for manure treatment, cleaning apparatus.

FIG.1.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Removal of dung or urine	A01K 1/01
Cat trays; Dog urinals; Toilets for pets	A01K 1/0107
Litter	A01K 1/0152
Devices for use in keeping domestic animals	A01K 1/035
Housing birds	A01K 31/00
Poultry-cages	A01K 31/005
Floors	A01K 31/007
Cages	A01K 31/06
Laying batteries	A01K 31/17
Poultry runs	A01K 31/22
Treating excrements	E01H 1/006

A01K 31/06

Cages, [N: e.g. for singing birds (for poultry [A01K 31/002](#))]

Definition statement

This subclass/group covers:

Cages for domestic birds, indoor or outdoor, e.g. volières, etc.

- may be transportable, foldable, etc.
- may include birdbaths, feeders, waste trays, etc.

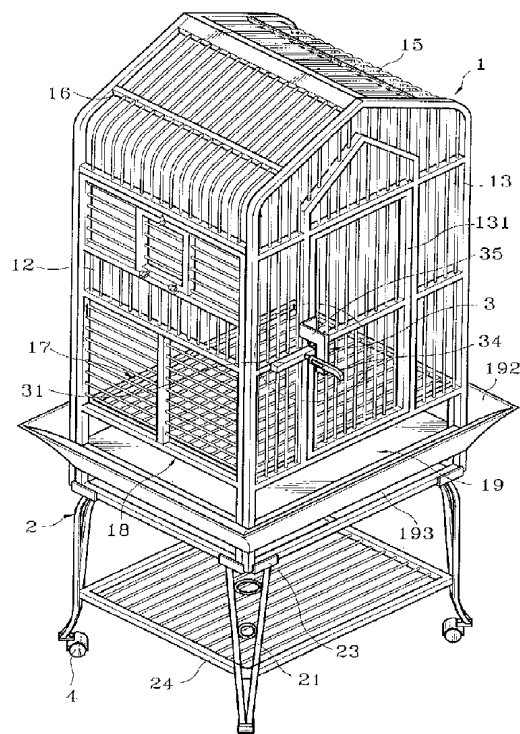
Cages may be suitable for assembling into batteries.

Heaters for cages.

Covers and supporting means therefor.

Accessories for cages, e.g. toys, nest holders, vermin traps, etc.

Hangers or stands for cages.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Housings for domestic or laboratory animals	A01K 1/03
Feeding or drinking devices associated with cages	A01K 1/0356
Poultry cages	A01K 31/002
Battery breeding cages	A01K 31/005
Floors	A01K 31/007
Door appliances; Automatic door-openers	A01K 31/02
Dropping-boards; Devices for removing excrement	A01K 31/04
Collapsible cages	A01K 31/08
Doors; Trap-doors	A01K 31/10
Perches	A01K 31/12
Laying batteries	A01K 31/17
For solid feed	A01K 39/0106
Other aviculture appliances	A01K 45/00

A01K 31/07

Transportable cages ([A01K 31/08](#) takes precedence); [N: Travelling cages for pigeons; Opening or closing of cages]

Definition statement

This subclass/group covers:

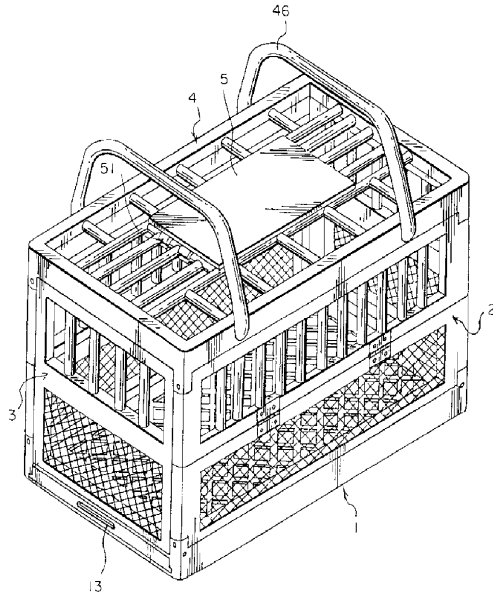
Transportable cages, may be single cages, containers, crates, etc.

- may be portable, disposable, etc.
- may be mountable on vehicle, e.g. car, ship, etc.

- may include drinking/feeding devices.

Containers may be subdivided in compartments.

Details therefor, e.g. doors, locks, wheels, etc.



A01K 31/08

Collapsible cages

Definition statement

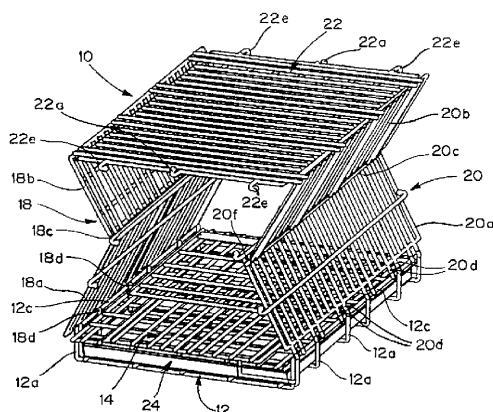
This subclass/group covers:

(Bird-) cages in which the collapsible aspect is dominating or characteristic.

- may be used for pet birds, transporting pigeons, exhibiting birds, breeding, etc.

Cages may be prefabricated, disposable, connectable to each other, etc.

- features may enable them to be shipped, or stored under restricted space conditions (even only once, before assembly).



Informative references

Attention is drawn to the following places, which may be of interest for search:

Housings for domestic or laboratory animals	A01K 1/03
Cages	A01K 31/06
Nest-boxes	A01K 31/14

A01K 31/10

Doors; Trap-doors [N: (for laying-nests [A01K 31/16](#))]

Definition statement

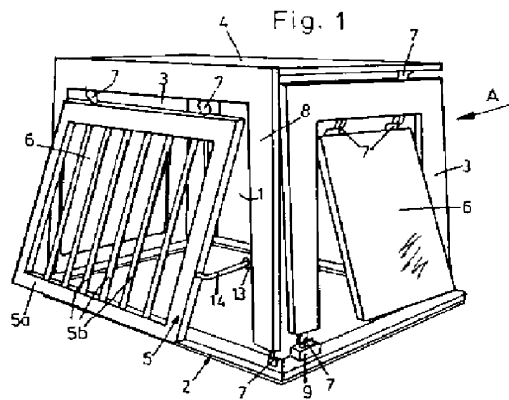
This subclass/group covers:

Doors for (bird-) cages, battery cages, nests, etc.

Trap-doors for bird-houses.

Means of locking doors, traps, a locking assembly.

Doors may be automatic.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Door appliances	A01K 31/02
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A01K 31/12

Perches

Definition statement

This subclass/group covers:

Perches or roosts (perch arrays) for poultry or other birds.

- may be movable, foldable, heated, lighted, etc.
- may enable trimming a birds nails.

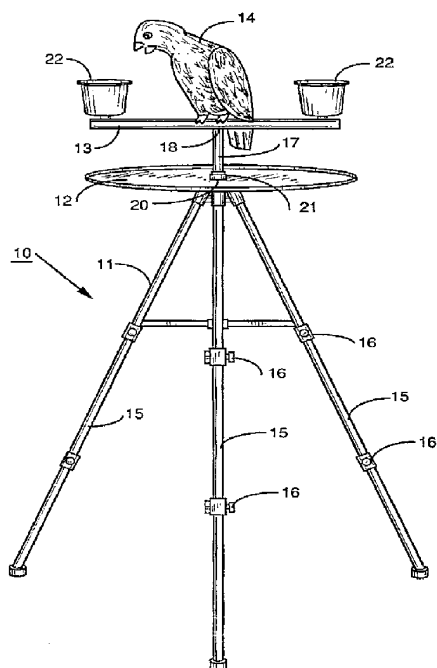
Fastening means for perches to cage, feeding device, etc. (e.g. clamping mechanism).

Disinfecting perch constructions.

Cleaners for perches.

Ant-vermin perches.

Shoulder-mountable perches.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or drinking devices associated with cages	A01K 1/0356
Training or exercise equipment	A01K 15/02
Floors	A01K 31/007
Cages	A01K 31/06
Poultry runs	A01K 31/22
Filling automatically	A01K 39/012
Feed troughs	A01K 39/014

A01K 31/14

Nest-boxes, [N: e.g. for singing birds or the like]

Definition statement

This subclass/group covers:

- may include feeding- and drinking devices.
- may include viewing possibilities, e.g. viewing window.

Bird nest protection systems.

Multiple nesting structures, e.g. for cliff swallows.



Definition statement

Laying nests, single or in batteries, for hen houses or cages.

Nest bowls for poultry.

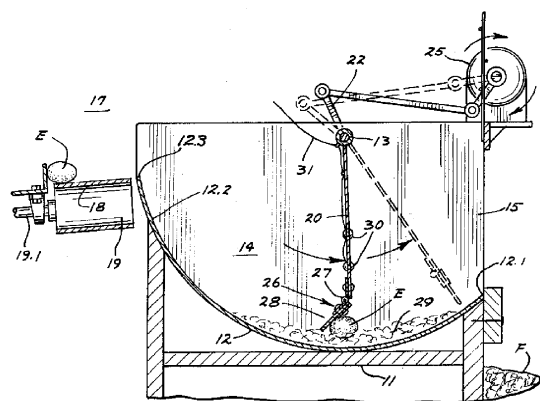
Details therefor, e.g. trapdoors, if integral part of specific structure.

Nests may be intended for other birds than poultry.

Nests may have manual or mechanical egg-collecting features, e.g. conveyers.

Cleaning devices for e.g. nest pad, etc.

Registration devices, e.g. registering the number of eggs laid by a hen.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Poultry-cages	A01K 31/005
Floors	A01K 31/007
Egg collecting or counting	A01K 31/165
Poultry runs	A01K 31/22

A01K 31/165

[N: Egg collecting or counting]

Definition statement

This subclass/group covers:

Devices for collecting eggs, in particular from battery nests or cages.

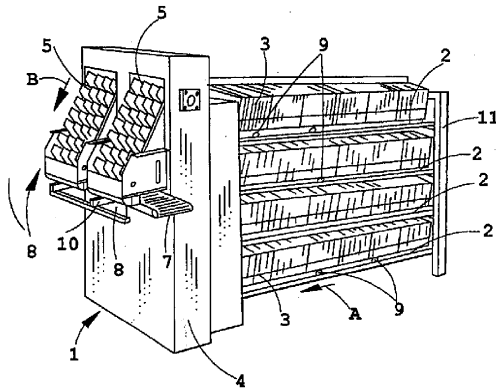
Devices for counting eggs.

Devices for transporting eggs, e.g. escalators, etc.

above devices may be cooperating.

Details therefor, e.g. conveyor belts, guiding devices, if connected with nest or cage.

Devices may include weighing apparatus, cleaning apparatus, marking device, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Floors	A01K 31/007
Laying-nests for poultry	A01K 31/16
Laying batteries	A01K 31/17
Poultry runs	A01K 31/22
Counting of objects	G06M 7/00
Counting of separate objects on conveyor	G06M 7/04

A01K 31/17

Laying batteries [N: including auxiliary features, e.g. feeding, watering, demanuring, heating, ventilation]

Definition statement

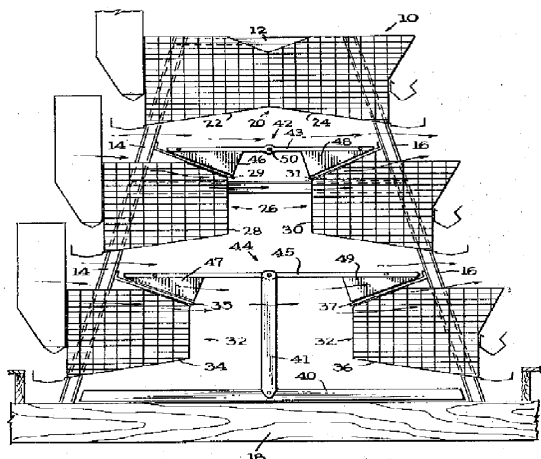
This subclass/group covers:

Battery structures for housing poultry.

- may include movable cages, easy mountable, dismountable, etc.
- may include ventilating, heating, demanuring means, etc.

Support for cages.

Feeding and drinking devices, egg-receiving devices, may be part of a battery.



A01K 31/18

Chicken coops or houses [N: for baby chicks]; Brooders [N: including auxiliary features, e.g. feeding, watering, demanuring, heating, ventilation (battery breeding cages [A01K 31/005](#))]

Definition statement

This subclass/group covers:

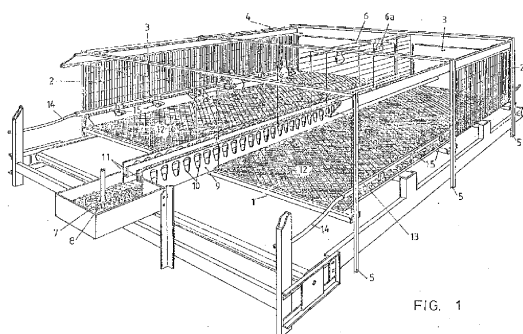
Structures for housing chicks (or other young animals).

Characteristic must be the growing of the chicks, e.g. adjustment of structure to growth.

- may include brooder incubators, (NB: for young chicks) but not as the main feature.

Poultry rearing device, other than brooders, e.g. mere shelters.

Heating, ventilation and drinking/feeding-device, may be part of whole structure.



F/G. 1

Informative references

Attention is drawn to the following places, which may be of interest for search:

Pigsties; Dog-kennels; Rabbit-hutches or the like	A01K 1/02
Housing birds	A01K 31/00
Battery breeding cages	A01K 31/005
Brooders	A01K 31/19
Heating arrangements	A01K 31/20
Poultry runs	A01K 31/22

A01K 31/19

Brooders; [N: Foster-mothers; Hovers]

Definition statement

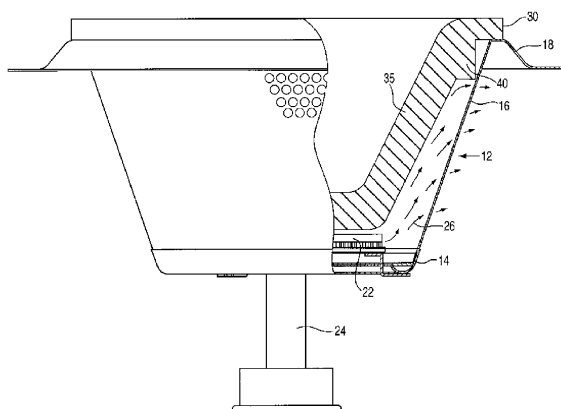
This subclass/group covers:

Brooders for raising poultry.

- may be portable.

Heating devices as part of a brooder, e.g. electric heaters, infra-red gas heaters, etc.

Heat lamps, dampers, in combination with brooders.



A01K 31/20

Heating arrangements; [N: Ventilation]

Definition statement

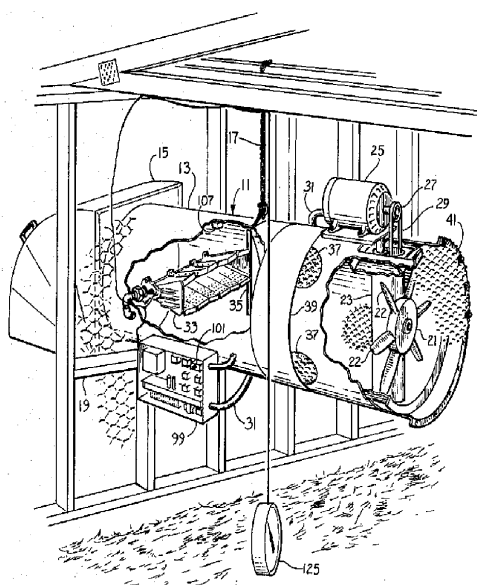
This subclass/group covers:

Climate control features applicable to brooder houses or brooders, e.g. heaters, (coolers), ventilation system.

The heating or ventilating aspect must be a characteristic.

Devices may also be meant for conventional battery cages.

Heating may be electric, infra-red gas heater, etc. (e.g. floor-heating).



Informative references

Attention is drawn to the following places, which may be of interest for search:

Air-conditioning	A01K 1/0047
Floor coverings	A01K 1/015
Pigsties; Dog-kennels; Rabbit-hutches or the like	A01K 1/02
Housing birds	A01K 31/00
Brooders	A01K 31/19
Poultry runs	A01K 31/22
Incubators for poultry	A01K 41/00
Controlling humidity in incubators	A01K 41/04

A01K 31/22

Poultry runs; [N: Poultry houses, including auxiliary features, e.g. feeding, watering, demanuring (air-conditioning of poultry runs or houses [A01K 1/0047](#))]

Definition statement

This subclass/group covers:

Means for raising poultry free, e.g. without cages inside houses.

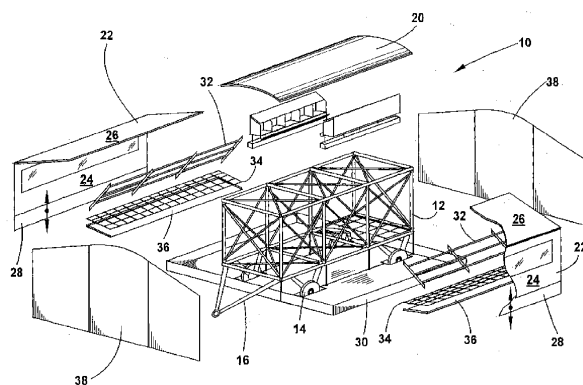
- may include methods for controlling environmental condition e.g. ventilation and heating devices.
- may include methods of processing poultry manure.

Free floor raising aspect must be present.

Poultry houses may consist of free areas (runs).

Details therefor, e.g. chicken fences.

Poultry houses may be movable, e.g. wheeled.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Air-conditioning	A01K 1/0047
Housing birds	A01K 31/00
Floors	A01K 31/007
Dropping-boards; Devices for removing excrement	A01K 31/04
Perches	A01K 31/12
Chicken coops or houses	A01K 31/18
Other aviculture appliances	A01K 45/00

A01K 31/24

Dovecots; Pigeon lofts

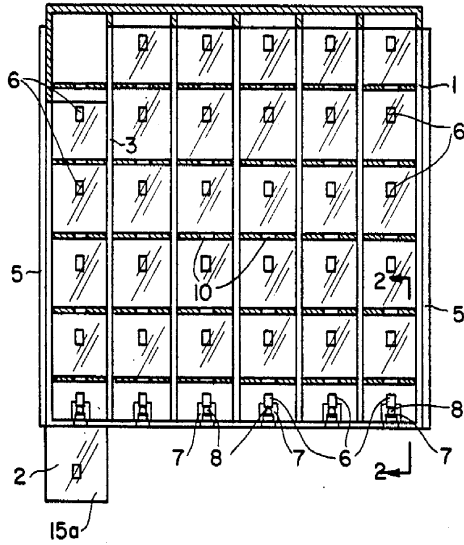
Definition statement

This subclass/group covers:

Dovecots, pigeon lofts and trap assemblies for pigeons, e.g. battery pigeon loft, etc.

- may include a waste disposal system, ventilating system, etc.
- may be movable and size/height may be adjustable.

Details therefor, entrance, cleaning systems, etc.



A01K 33/00

Nest-eggs

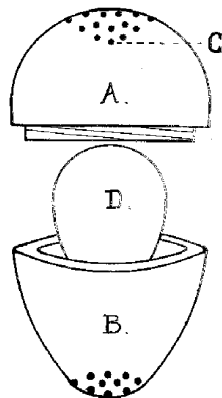
Definition statement

This subclass/group covers:

Nest eggs or hatching simulation device.

- may be vermin-destroying.

Fréd. Rühmelt Patent No. 19856 1. Blatt



A01K 35/00

Marking poultry or other birds [N: (marking meat [A22C 17/10](#))]

Definition statement

This subclass/group covers:

Marking poultry by means of rings, tags, wing bands, clips, etc.

Transponder may be included.

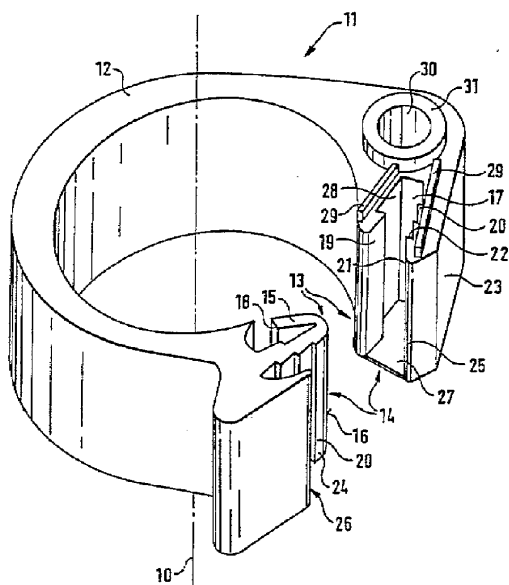
Detection devices therefor.

Devices for placing or removing rings.

Devices may include anti-parasite material.

Storage device for tagging rings.

Branding devices for poultry.



A01K 37/00

Constraining birds, e.g. wing clamps

Definition statement

This subclass/group covers:

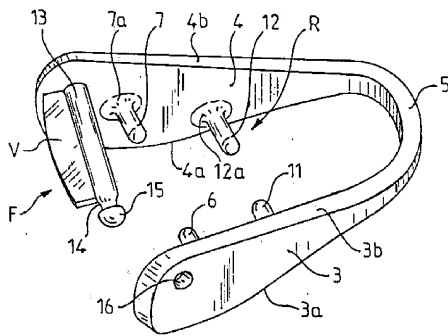
Devices for preventing birds from flying, escaping, sitting down, picking or dropping excrements.

- by means of clamps, locking system (beak), harness, boots, etc.

Attachments rings for birds feet.

Anti-picking devices, e.g. blinders, lenses or goggles.

Constraining birds for artificial insemination.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Manure or urine pouches	A01K 23/00
Marking poultry or other birds	A01K 35/00
Cramming appliances	A01K 39/06
Other aviculture appliances	A01K 45/00
Cutting beaks, claws, wings	A61D 1/005
Constraining for operation	A61D 3/00
Artificial insemination	A61D7/02
Hanging-up slaughtered birds	A22B 5/06

A01K 39/00

Feeding or drinking appliances for poultry or other birds [N: ([A01K 31/005](#), [A01K 31/06](#), [A01K 31/17](#) take precedence)]

Definition statement

This subclass/group covers:

Feeding/drinking devices for poultry, may be automatic. (e.g. battery feeding system)

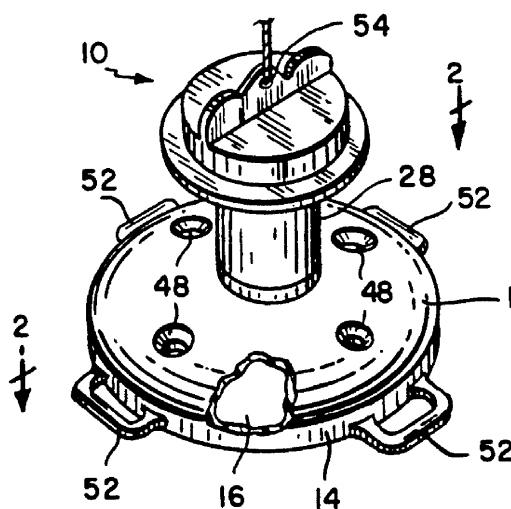
Window mountable bird feeders.

Bird feeding supports.

Feeding devices for wild animals, e.g. hummingbird feeders.

Bird feeder may be disposable.

Bird feeder may recycle bird food.



A01K 39/01

Feeding devices, [N: e.g. chainfeeders] ([A01K 39/04](#) takes precedence; [N: panfeeding systems, feeding pans [A01K 39/0125](#)])

Definition statement

This subclass/group covers:

Poultry feeders comprising mechanical distributing means from a storage to one or more feeding stations, e.g. a long trough.

Conveying chains/belts therefor, conveying cables.

Hoppers therefor, including vibrators or controls.

Conveyer/trough combinations therefor, e.g. conveyer in trough wall.

Battery feeding systems, without other important battery features.

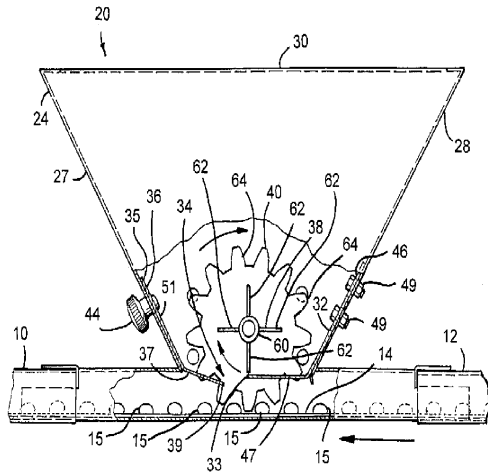
Devices may include level detectors.

Trough-type feeders with connection means for distributing systems.

Feed-flow regulating means.

Bird-feeding devices for outside, may be insect-proof.

Nectar feeder access devices.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Filling automatically	A01K 39/012
Feed troughs	A01K19/014

A01K 39/0106

[N: for solid feed, e.g. grit-cake holders (licking-stone holders for stock or game [A01K 5/015](#))]

Definition statement

This subclass/group covers:

Bird food holders, mostly for feeding birds outside, e.g. wire mesh tubular feeder.

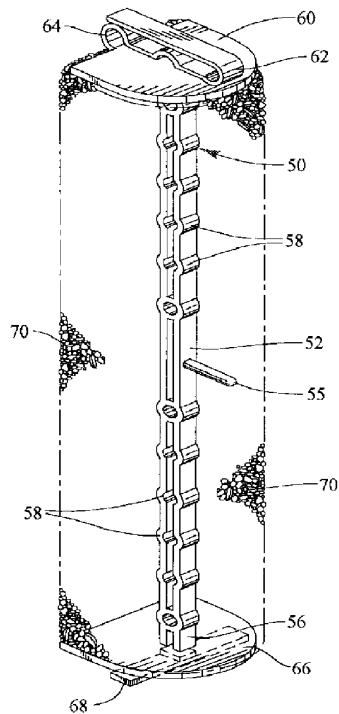
- may be attachable to wall, tree, etc.

Devices may also be used for feeding other animals, e.g. squirrels.

Bird feeders may be disposable.

Feed blocks.

Hand-held bird feeders.



A01K 39/0113

[N: with means to prevent other animals or insects, e.g. squirrels or ants, from eating also]

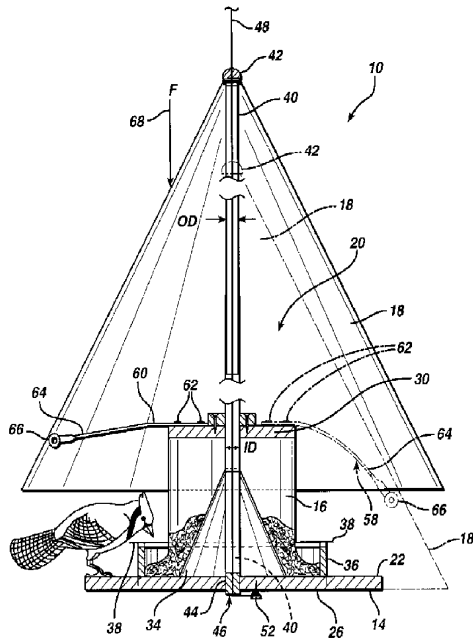
Definition statement

This subclass/group covers:

Squirrel proof bird feeding device, by means of e.g. a spinning mechanism triggered by weight, electric shock device, slippery side panels, etc.

Baffles for preventing animals from climbing up a birdhouse.

Rodent repelling by means of e.g. several water filled moats, protective pet dish, etc.



A01K 39/012

filling automatically, [N: e.g. by gravity from a reserve]

Definition statement

This subclass/group covers:

Bird or poultry feeding devices with automatic filling of a feed compartment, e.g. gravity.

- may be actuated by the animal.

Devices include a storage, e.g. incorporated hopper.

Excluded are the possible conveying means from a storage to the feeder(s):
See [A01K 39/01](#).

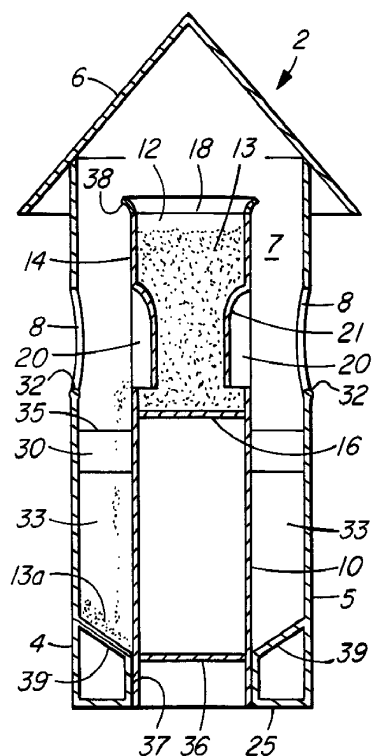
Means for controlling the feeding device, e.g. animal actuated.

Device may be liquid-feeding, e.g. for hummingbirds.

Devices may include prevention means for another animals to feed.

Devices may be combined with shelters.

Devices may include time-control means.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or drinking devices associated with cages	A01K 1/0356
Feeders for livestock	A01K 5/00
Nest-boxes	A01K 31/14
Feeding devices	A01K 39/01
Feed troughs	A01K 39/014
Feeders for fish	A01K 61/02

A01K 39/0125

[N: Panfeeding systems; Feeding pans therefor]

Definition statement

This subclass/group covers:

Pan feeding systems for poultry.

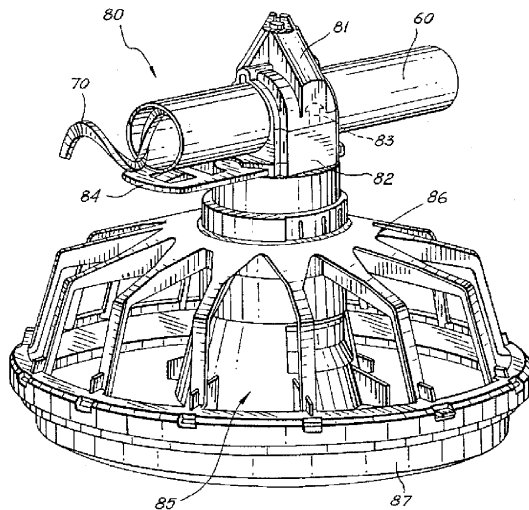
Device may include an adjustable feed level control.

Means of controlling supply of feed to the trough.

Feeding device may include time controlling means.

Details therefor, e.g. feed drop tube, etc.

Feeding pans, feed box, etc.



A01K 39/014

Feed troughs; Feed throwers

Definition statement

This subclass/group covers:

Bird troughs, e.g. with bird-actuated covers.

Bird throwers, i.e. throwing-out feed, by means of e.g. propelling, centrifugal.

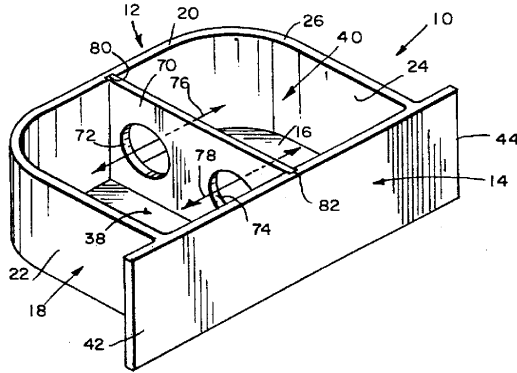
Troughs for batteries.

Grids for troughs, anti-roost devices for troughs.

Trough aspect is prevailed, feeder may include a hopper or other delivery means, e.g. a foraminous hopper for direct access.

Devices may include a shelter.

Heating or lighting means may be incorporated.



See also:

[A01K 1/0356](#) Feeding or drinking devices associated with cages.

[A01K 5/01](#) Feed troughs; Feed pails.

[A01K 31/14](#) Nest-boxes.

[A01K 39/00](#) Feeding or drinking appliances for poultry or other birds.

[A01K 39/01](#) Feeding devices.

[A01K 39/012](#) Filling automatically.

[A01K 61/025](#) Culture of bivalves.

A01K 39/02

**Drinking appliances ([A01K 39/04](#) takes precedence;
construction of valves [F16K](#))**

Definition statement

This subclass/group covers:

Poultry watering systems involving features of more than one subgroup of [A01K 39/02](#).

Devices may be bird-actuated, other than nipples.

Drinking system may be remote controlled.

Flush apparatus for watering system.

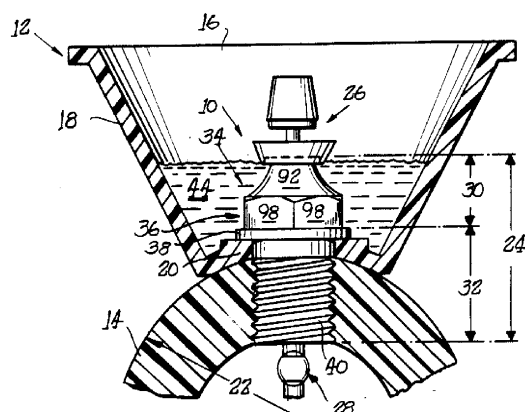
Drinking troughs; their accessories, e.g. covers.

Details of general importance, e.g. anti-freeze devices, heating devices, over flow plug, etc.

Battery drinking systems.

Cleaning apparatus for watering devices.

Structures for supporting water systems, e.g. a hanger.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding or drinking devices associated with cages	A01K 1/0356
Watering equipment for stock or game	A01K 7/00
Feed troughs; Feed throwers	A01K 39/014
Drinking appliances	A01K 39/02
Nipple drinkers	A01K 39/0213

A01K 39/0213

[N: Nipple drinkers]

Definition statement

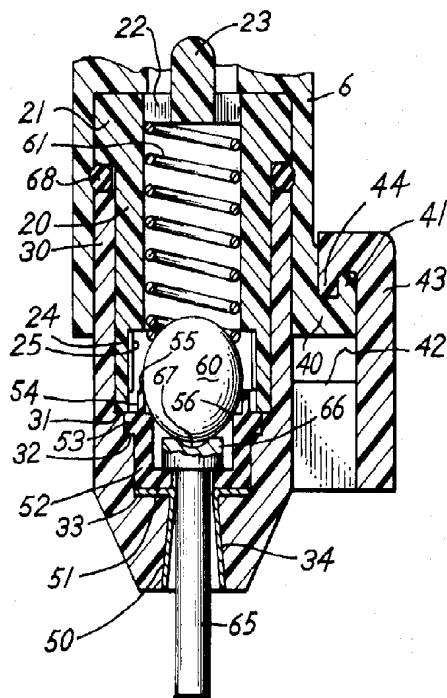
This subclass/group covers:

Water or liquid food dispensing by means of nipple drinkers/drinking valves.

- may include medicine dispensing means.
- may include cleaning system.
- may be animal-operated.

Details therefor, e.g. pipes, valves, etc.

Pressure regulators.



A01K 39/022

With weight-controlled supply

Definition statement

This subclass/group covers:

Poultry watering systems, with weight-controlled supply, e.g. suspension-type drinking system.

- by means of e.g. a valve for regulating amount of water, closure mechanism, etc.

Cleaning devices therefor, may be self cleaning.

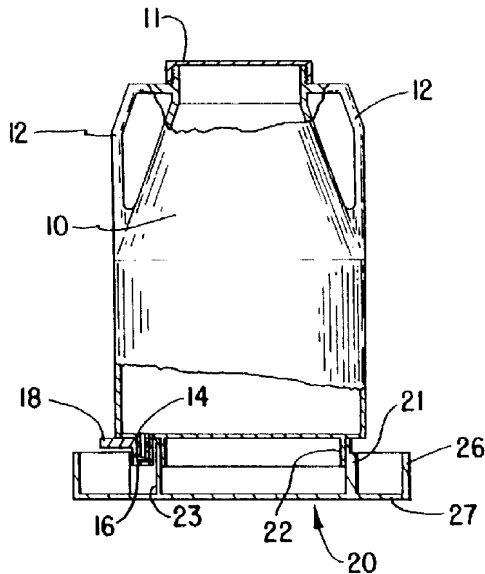
Definition statement

This subclass/group covers:

Drinking devices kept filled to constant level from incorporated storage, e.g. water supply container.

- may include heating devices, anti-roost device, etc.

Devices may be in combination with a feeding device.



A01K 39/04

Combined feeding and drinking appliances, [N: e.g. also for batteries]

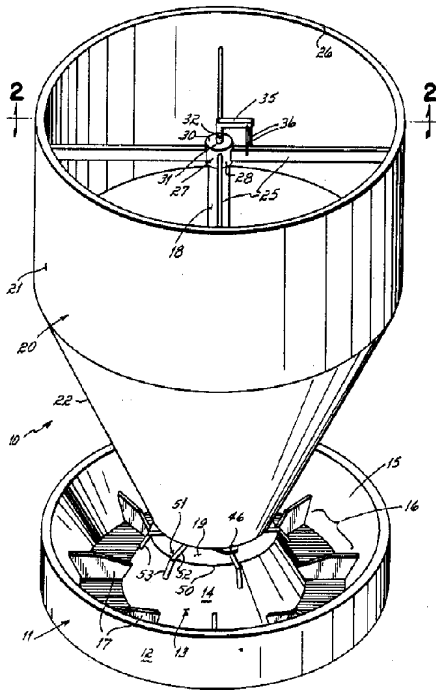
Definition statement

This subclass/group covers:

Combined feeding and drinking appliances for birds/ poultry.

- may include anti-freeze devices, time-control devices, etc.

Device may be in combination with shelter.



A01K 39/06

Cramming appliances, [N: e.g. helical force-feeders]

Definition statement

This subclass/group covers:

Cramming appliances.

Special cages with constraining means for cramming animals.

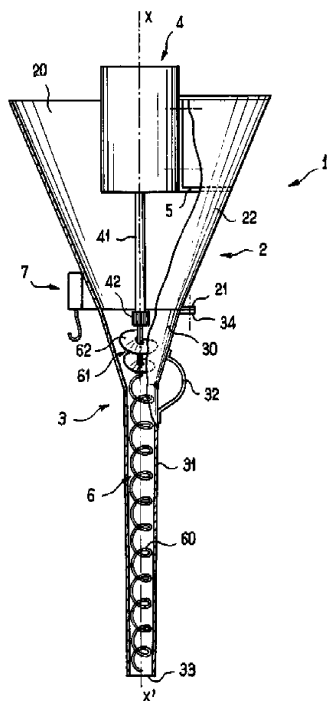
Force-feeders.

Devices may include a weight/quantity controller, pump, etc

Trolleys for moving along (an operator) in front of cages.

Metering feed-pistols, etc.

Animals may be other than birds, e.g. laboratory animals.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Cages	A01K 31/00
Constraining birds	A01K 37/00
Feeding devices	A01K 39/01
Introducing materials into animals	A61D 7/00

A01K 41/00

Incubators for poultry

Definition statement

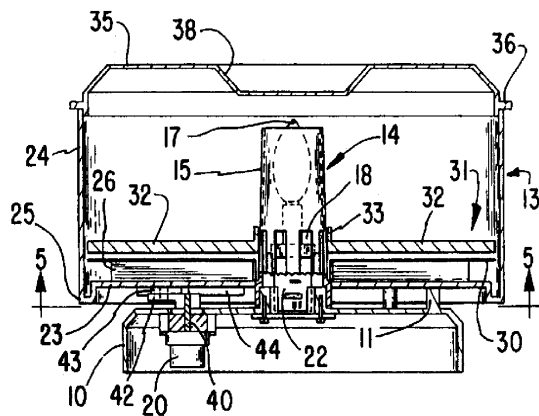
This subclass/group covers:

Devices for incubating eggs and hatching devices.

- may include ventilating devices, lightning, climate control, temperature control device, etc.

Devices for turning eggs.

Devices may be transportable.



A01K 41/02

Heating arrangements

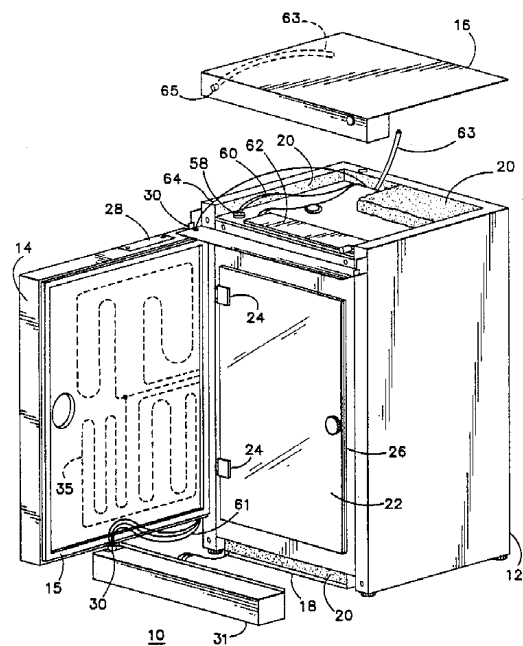
Definition statement

This subclass/group covers:

Heating arrangements for incubators for poultry.

- by means of electric heating, heat exchange fluid, warm air flow, etc.

Devices may be in combination with ventilation means, humidity control, etc.



A01K 41/023

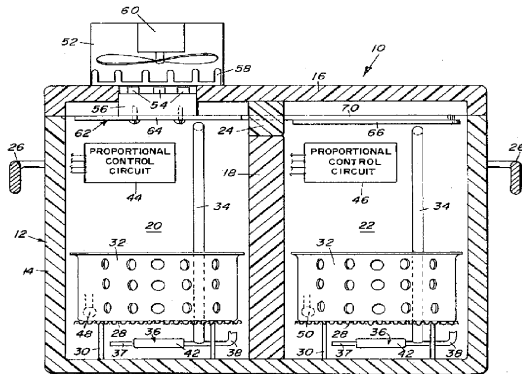
[N: Devices for regulating temperature]

Definition statement

This subclass/group covers:

Devices for regulating temperature in incubators for poultry.

Devices may be in combination with ventilating means, etc.



A01K 41/026

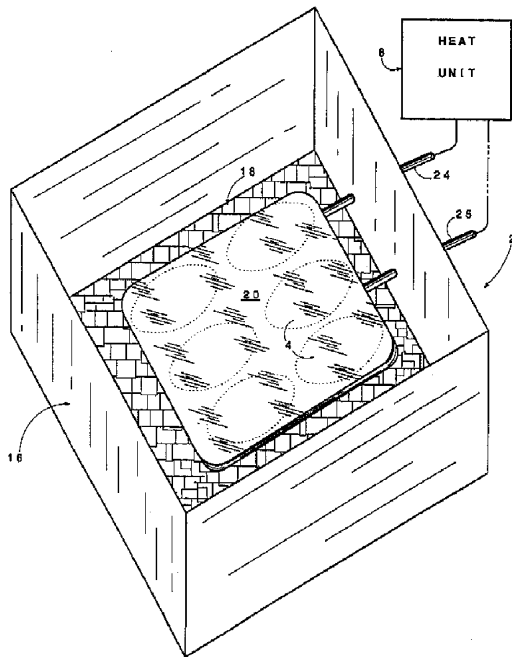
[N: Heating with water]

Definition statement

This subclass/group covers:

Incubators for poultry, heated with water.

Details therefor, e.g. heat regulating means, heat exchange liquid, thermostatic control device, etc.



A01K 41/04

Controlling humidity in incubators

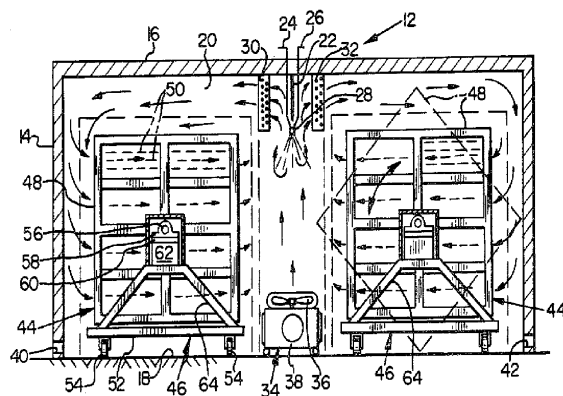
Definition statement

This subclass/group covers:

Devices for controlling humidity in incubators.

- by means of e.g. weighing device.

Devices may be in combination with ventilation and temperature control device, e.g. air-control unit.



A01K 41/06

Egg-turning appliances for incubators

Definition statement

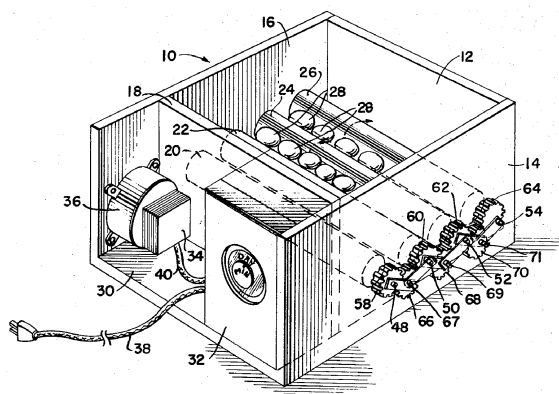
This subclass/group covers:

Egg-turning devices for incubators.

Devices for rolling eggs.

Transfer devices for eggs, e.g. rotator assembly.

Control devices, e.g. turning control signal.



A01K 41/065

[N: Egg drawers]

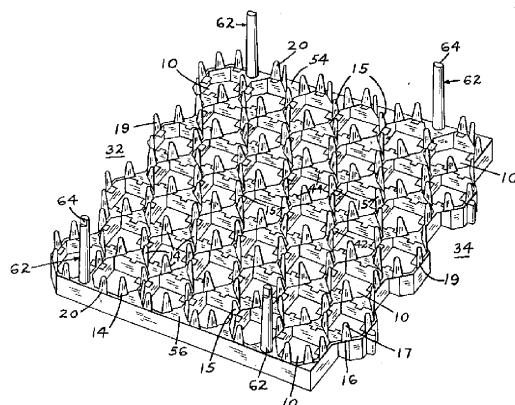
Definition statement

This subclass/group covers:

Egg drawers, e.g. for incubators for poultry.

Drawers may include egg-turning device.

Drawers may be divided in different compartments, cells, etc.



A01K 43/00

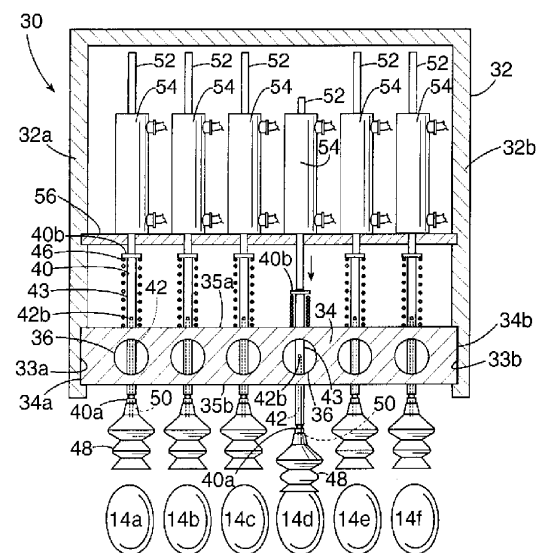
Testing, sorting or cleaning eggs (investigating or analysing eggs, e.g. by candling [G01N 33/08](#)); [N: Conveying devices (for batteries [A01K 31/165](#)); Pick-up devices]

Definition statement

This subclass/group covers:

Devices for performing different kind of treatment steps with eggs, e.g. transporting, conveying, picking up, putting down, ordering, aligning, emptying, irradiating etc, impregnating, crack-checking, cracking (e.g. for embryo extraction), sorting, measuring/weighing, etc.

Devices for packaging and storing eggs.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Egg collecting or counting	A01K 31/165
Other aviculture appliances	A01K 45/00
Opening, or yolk-white separating, in bulk	A23J 1/00
Investigating or analysing eggs, e.g. by candling	G01N 33/08
Sorting	B07C 1/00

Packing	B65B 23/00
Conveying	B65G 1/00
Counting of objects.	G06M 7/00

A01K 43/005

[N: Cleaning, washing of eggs]

Definition statement

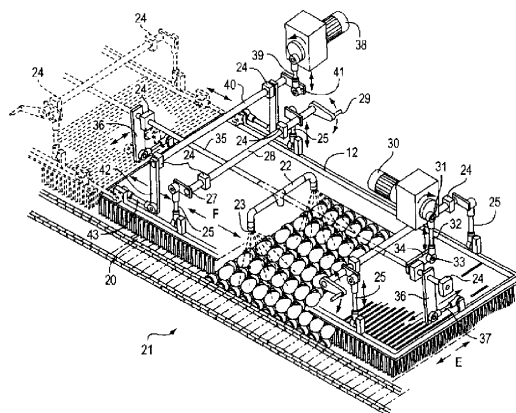
This subclass/group covers:

Egg washing and cleaning devices.

Egg sanding devices.

Details therefor, brushes, water spray, conveyor, etc.

Devices may include a combination of different cleaning features, e.g. washing, drying, sanding, etc.



A01K 43/04

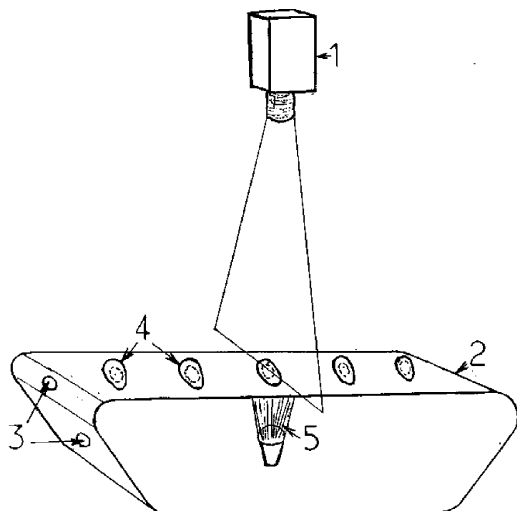
Grading eggs

Definition statement

This subclass/group covers:

Devices for grading eggs.

Devices may be in combination with cleaning, sorting devices.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Sorting according to weight in general	B07C 5/16
--	---------------------------

A01K 43/06

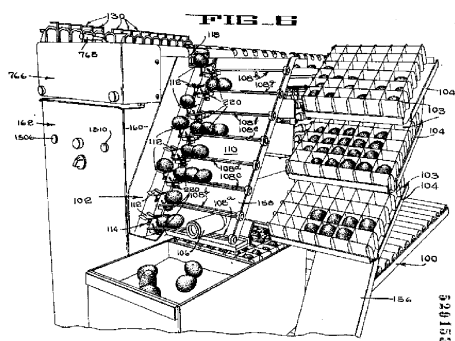
According to size

Definition statement

This subclass/group covers:

Grading eggs according to size.

Devices may include measuring device.



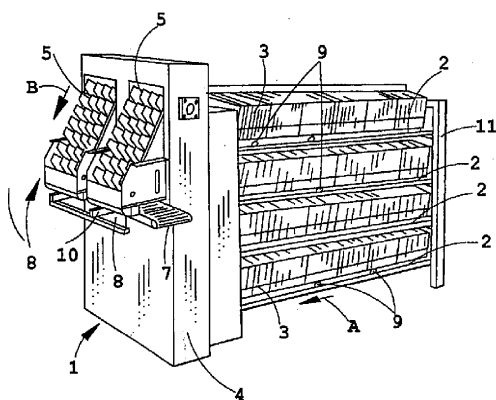
A01K 43/08

according to weight (sorting according to weight in general
[B07C 5/16](#))

Definition statement

This subclass/group covers:

Grading eggs according to weight.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Sorting according to weight in general	B07C 5/16
--	---------------------------

A01K 43/10

Grading and stamping

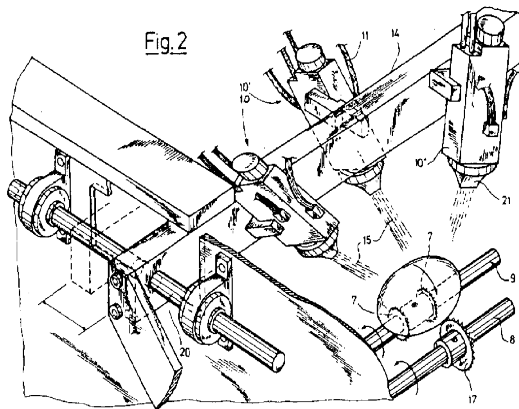
Definition statement

This subclass/group covers:

Devices for grading and stamping of eggs.

Devices for printing on eggs, e.g. inkjet printer.

Egg dyeing devices, laser devices, etc.



A01K 45/00

Other aviculture appliances, e.g. devices for determining whether a bird is about to lay

Definition statement

This subclass/group covers:

Transporting or conveying birds (in particular poultry in quantities).

Devices for sex determination of poultry.

Sorting, weighing and/or counting birds.

Bird baths and showers, may be combined with watering.

Influencing or measuring biological activity, e.g. by electrical field.

Assisting birth, e.g. shell-openers.

Anti-vermin devices.

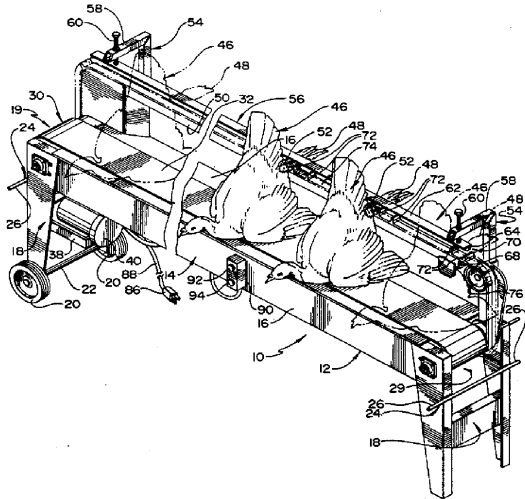
Shackling (living) birds.

Devices for assisting (artificial) insemination.

Conditioning fighting cocks, e.g. by artificial spurs.

Protective gear for birds, e.g. saddles.

Devices for control of static neutralisation.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for use in keeping domestic animals	A01K 1/035
Feeding or drinking devices associated with cages	A01K 1/0356
Devices for grooming or caring of animals	A01K 13/00
Training or exercise equipment	A01K 15/02
Dehorners; Horn trainers	A01K 17/00
Other apparatus for animal husbandry	A01K 29/00
Poultry cages	A01K 31/002
Floors	A01K 31/007
Cages	A01K 31/06
Transportable cages	A01K 31/07
Constraining birds	A01K 37/00
Debeaking	A61D 1/005
Artificial insemination	A61D7/02

Shackling dead poultry	A22C 21/00
Bird transport boxes	B65D 85/50
Transport trucks	B60P 3/04

A01K 45/002

[N: Bird baths or showers]

Definition statement

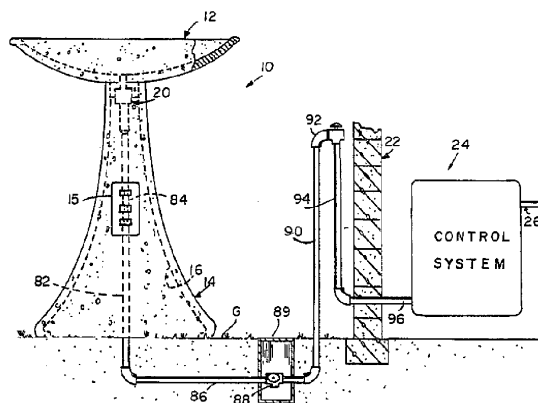
This subclass/group covers:

Bird baths or showers.

- may include feeding system.
- may be self cleaning, self-filling.
- may include anti-freeze facilities e.g. a heater.

Devices for attaching birdbaths to e.g. walls, trees, cage, etc.

Details therefor e.g. filling and flushing valve, etc.



A01K 45/005

[N: Harvesting or transporting of poultry]

Definition statement

This subclass/group covers:

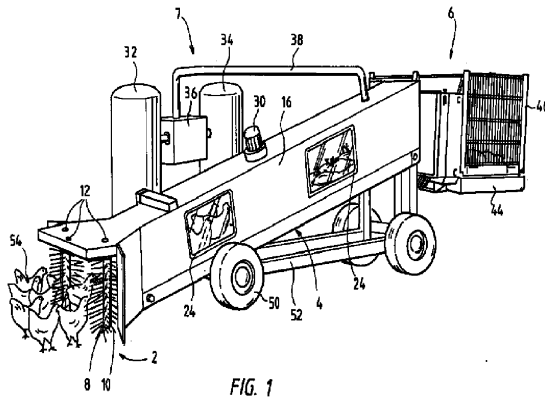
Loading and unloading devices for poultry, or crates.

Devices for distributing poultry to receiving bins, (multi-layer) containers, etc.

Devices for gripping the feet of poultry and suspending poultry from its legs.

Poultry collecting devices, by means of e.g. picking up, etc.

Devices for transporting poultry, e.g. containers.



A01K 45/007

Injecting or otherwise treating hatching eggs, e.g. devices for determining whether a bird is about to lay

Definition statement

This subclass/group covers:

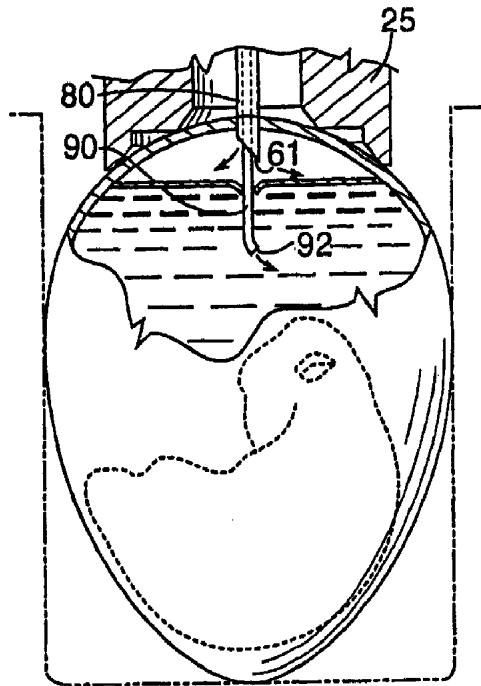
Devices for injecting eggs, may be automatic.

Introducing material into eggs, e.g. feeding a subject prior to hatch, fertilizing eggs.

Pre-hatch sex determination.

Method for localizing allantoic fluid.

Means of non-invasive forced oxygen enrichment.



A01K 47/00

Beehives

Definition statement

This subclass/group covers:

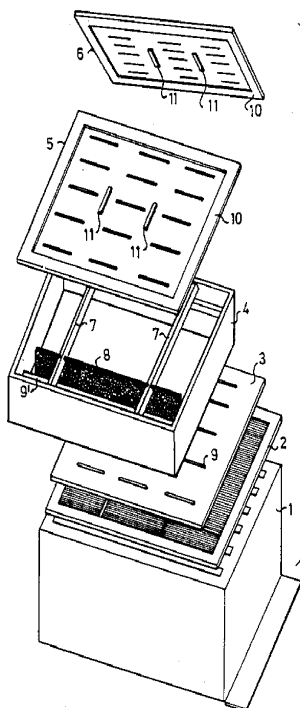
Beehives, nesting boxes, e.g. Kenya hives.

- may enable housing of multiple colonies.
- may include ventilation.

Beehives may be portable, disposable, biodegradable, etc.

Covers for beehives.

Bee observation devices.



A01K 47/02

Construction or arrangement of frames for honeycombs

Definition statement

This subclass/group covers:

Frames for, or including, honeycombs.

Methods and devices for producing or assembling the frames.

Frames may be foldable.

Reinforcing elements for honeycombs.

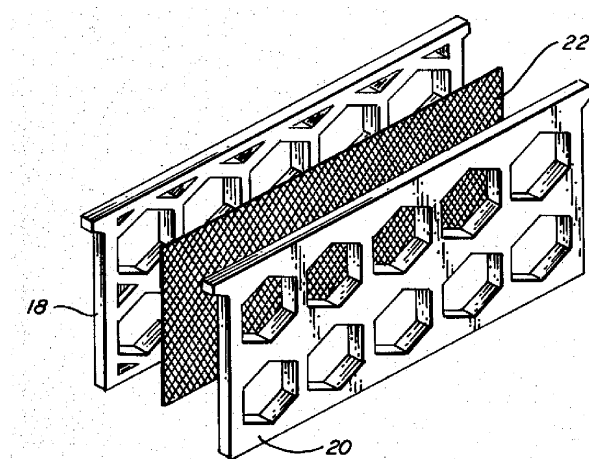
Means for holding honeycombs or frames in the beehive.

Means for keeping distance between frames or honeycombs.

Honeycombs may be complete (ready to breed), or to be completed by bees.

Combination of frames with honeycombs, the frames having particular importance.

Mounting honeycombs into frames, e.g. by heating wires.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Beehives	A01K 47/00
Artificial honeycombs	A01K 47/04

A01K 47/04

Artificial honeycombs

Definition statement

This subclass/group covers:

Artificial honeycombs or foundations.

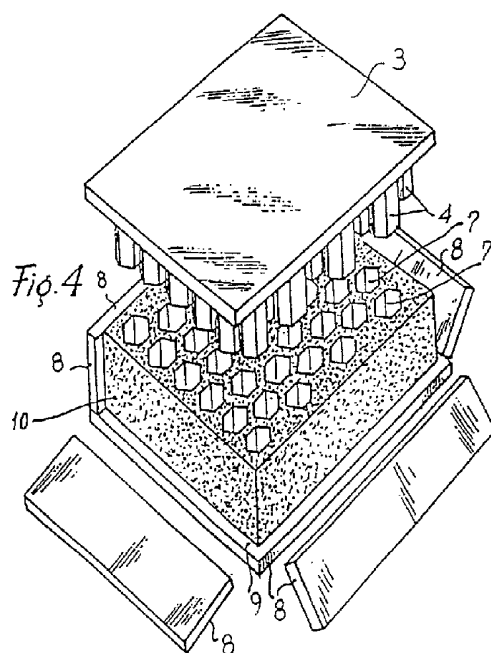
Methods and devices for producing them.

Ways of assembling them into frames.

Extraction of honey from specially designed honeycomb, e.g. by heat.

Honeycombs may be complete (ready to breed), or to be completed by bees.

Means for producing foundation plates, e.g. wax foundation.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Construction or arrangement of frames for honeycombs	A01K 47/02
Appliances for treating beehives or parts thereof	A01K 51/00
Honey collection	A01K 59/00

A01K 47/06

Other details of beehives, e.g. ventilating devices, entrances to hives, guards, partitions, bee escapes

Definition statement

This subclass/group covers:

Entrance-gates, may be anti-parasite. Control devices for entrance, etc.

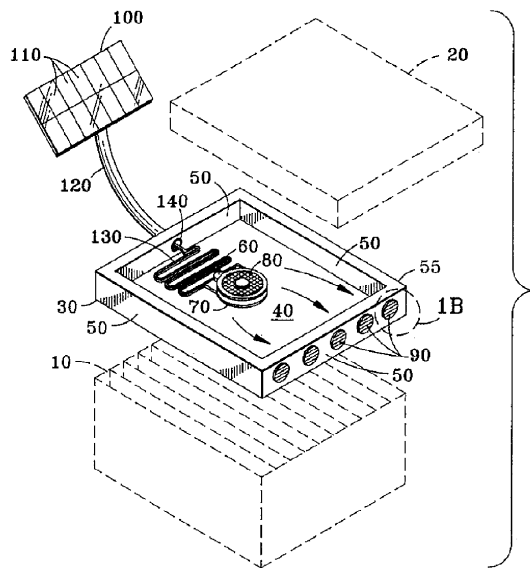
Trapping (sick) bees device.

Ventilation means for beehives.

Methods for obtaining honey from bees.

Bee venom collecting device.

Pollinating systems.



A01K 49/00

Rearing-boxes; Queen transporting or introducing cages

Definition statement

This subclass/group covers:

Any means for rearing bees, not covered by other groups.

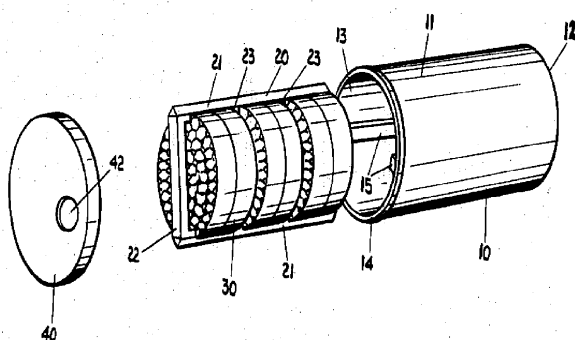
Treating bees, e.g. by irradiation.

(Artificial) insemination of queen bees.

Measuring or testing bees.

Artificially hatching queen bees.

Containers for transporting (e.g. shipping) queen bees.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Rearing-boxes; Queen transporting or introducing cages	A01K 47/06
Appliances for treating beehives or parts thereof	A01K 51/00
Bee-smokers; Bee-keepers accessories	A01K 55/00
Appliances for providing, preventing, or catching swarms	A01K 57/00
Rearing or breeding animals, not otherwise provided for	A01K 67/00

A01K 51/00

Appliances for treating beehives or parts thereof, e.g. for cleaning or disinfecting

Definition statement

This subclass/group covers:

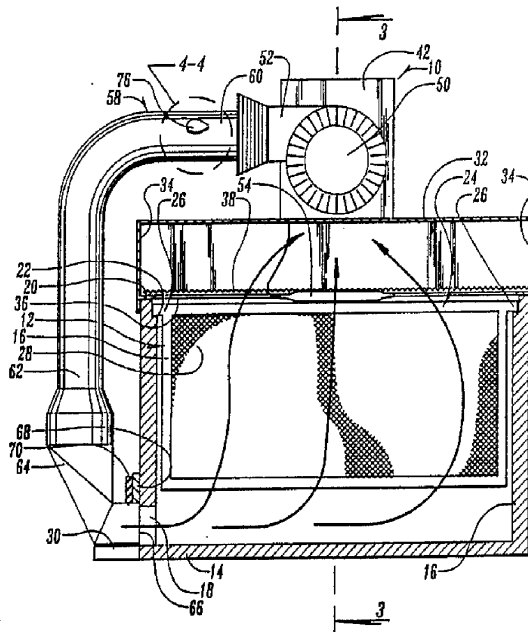
Anti-parasite entrances.

Devices for removing parasites, by means of sound-waves, vaporizing formic acid, magnetic treatment, etc.

Thermostatic control devices, e.g. hot-air drier.

Devices for cleaning bee hive frames, bee board, etc.

Means for supplying fresh water for the bees.



A01K 53/00

Feeding or drinking appliances for bees

Definition statement

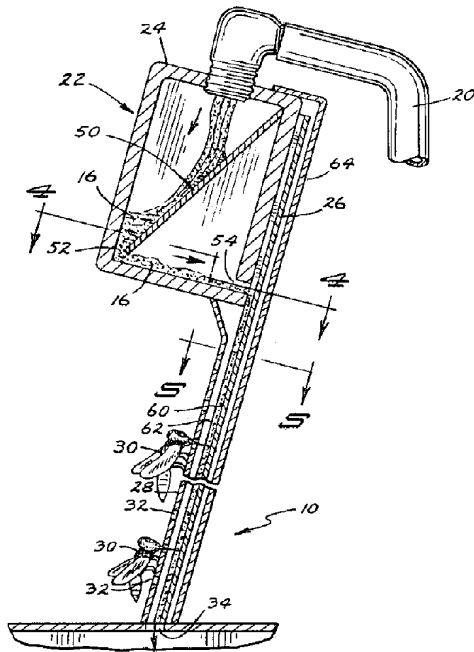
This subclass/group covers:

Feeding and drinking appliances for bees, e.g. drinking trough, etc.

Devices for filling feeding and drinking appliances.

Bee feeders may be automatic.

Devices may include heating system.



A01K 55/00

Bee-smokers; Bee-keepers' accessories, e.g. veils ([N: smoke-generators for gardens or orchards [A01G 13/06](#), for killing insects [A01M13/00D](#), for killing rats [A01M17/00B2](#)]; smoking pipes [A24F](#))

Definition statement

This subclass/group covers:

Insect protecting body garment, e.g. head screen, protective bag, etc.

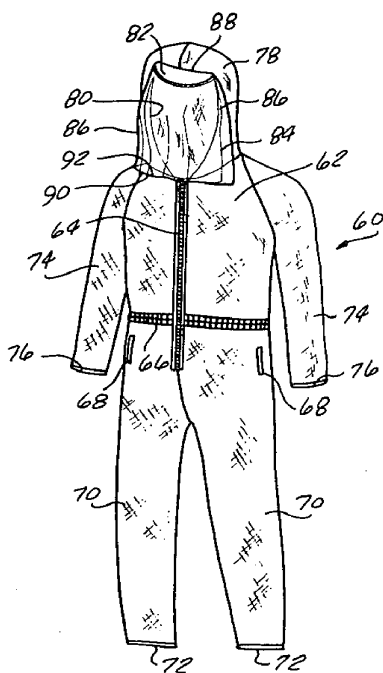
Bee-hive transport devices.

Devices for controlling/ monitoring behaviour of bees.

Devices for lifting an moving bee- hives.

Bee smokers.

Devices for assessing bee temperament.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Smoke-generators for gardens or orchards	A01G 13/06
For killing insects	A01M13/00D
For killing rats	A01M17/00B2
Smoking pipes	A24F

A01K 57/00

**Appliances for providing, preventing or catching swarms;
Drone-catching devices**

Definition statement

This subclass/group covers:

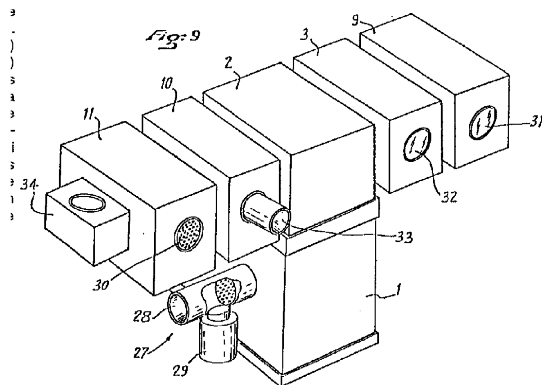
Devices for detecting bee-swarms.

Devices for catching/trapping bee swarms.

Devices for controlling swarming of bees, e.g. by means of pheromones.

Appliances for re-queening a hive.

Devices for breeding bee colonies.



A01K 59/00

Honey collection

Definition statement

This subclass/group covers:

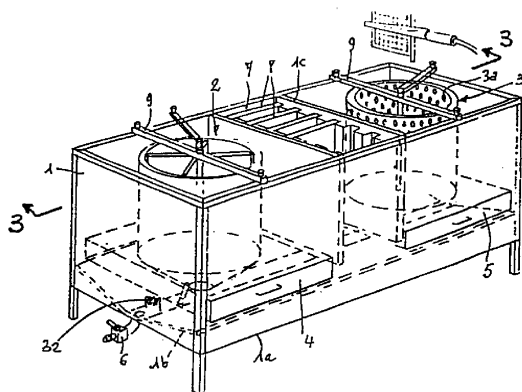
Collection frames for honey.

Devices for removing honey frames, e.g. de-boxing device.

Devices for separating honey from honeycombs.

Devices for cutting and wrapping honey.

Devices for liquefying honey.



A01K 59/02

Devices for uncapping honeycombs

Definition statement

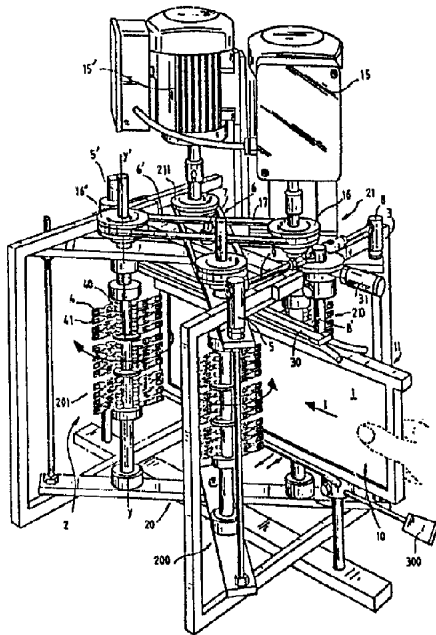
This subclass/group covers:

Honeycomb uncapping device, e.g. fail-type.

Devices for moving lids from honeycombs.

Cutting knife, may be electrically heated.

Devices may include honey extracting device.



A01K 59/04

Honey strainers; [N: Strainers with centrifuges or presses]

Definition statement

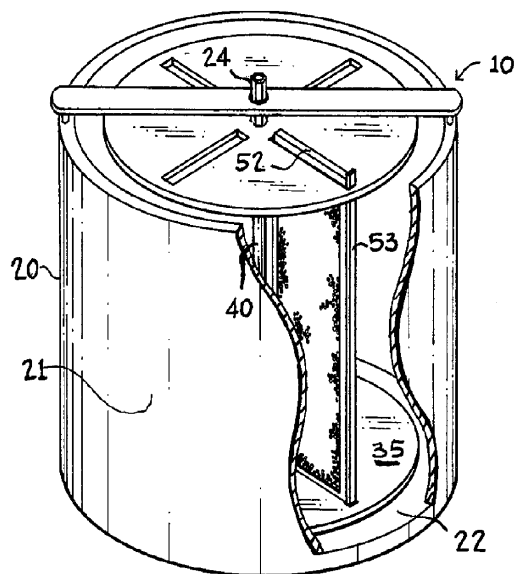
This subclass/group covers:

Centrifugal honey extraction device.

Honey presses.

Devices for extracting honey by means of blowing air into cells of the honeycomb.

Devices for separating bees wax and honey or removing moisture from honey.



A01K 59/06

Devices for extracting wax

Definition statement

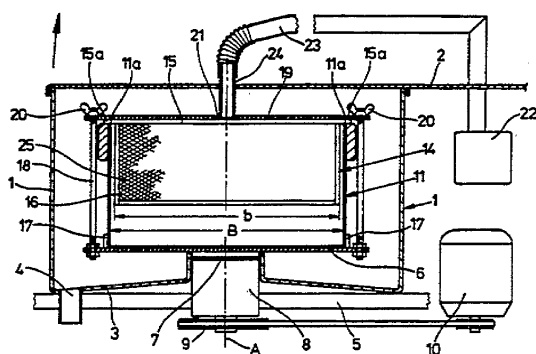
This subclass/group covers:

Devices for extracting bees wax, e.g. by means of rotation, etc.

Devices for melting wax from honey combs, e.g. by means of micro-waves, hot water, etc.

Bee hive press.

Devices for treating wax, purifying wax.



A01K 61/00

Culture of fish, mussels, crayfish, lobsters, sponges, pearls or

the like (harvesting oysters, mussels, sponges or the like
[A01K 80/00](#))

Definition statement

This subclass/group covers:

Culture of fish or other water-animals (including aquatic insects), in ponds, containers, streams, or open sea.

Feeding schedules therefor.

Containers therefor.

Tools therefor, e.g. servicing machines for basins.

Artificial reefs; Artificial seaweed.

Fish brooders.

Accessories, e.g. floats, combined feeding and aerating means, etc.

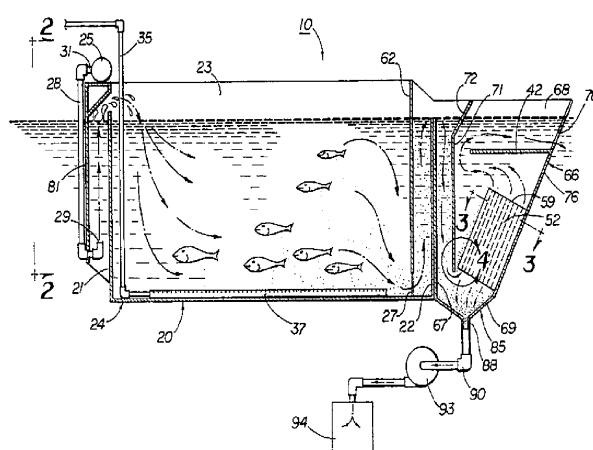
Treating aquatic animals, e.g. by soaking in medical solution.

Methods of increasing seafood production.

Methods of producing pearls.

Animal rescue devices for swimming pools.

Devices for removing parasites from fish.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Other apparatus for animal husbandry	A01K 29/00
Sorting, grading, counting or marking	A01K 61/001

live fish	
Cleaning bottoms or walls of ponds or receptacles	A01K 61/003
Receptacles for live fish	A01K 63/00
Aquaria; Terraria	A01K 63/003
Arrangements for treating water	A01K 63/04
Stationary catching devices	A01K 69/00
Method or means of catching fish in bulk	A01K 79/00
By electrocution	A01K 79/02
Harvesting oysters, mussels, sponges or the like	A01K 80/00
Culture of algae	A01G 33/00
Fish repellents etc. for hydraulic power plants etc	E02B 1/006
Artificial reefs	E02B 3/04
Fish passages	E02B 8/08
Monitoring environment by test fishes	G01N 33/182

A01K 61/001

[N: Sorting, grading counting or marking live fish; Sex determination (sorting dead fish [A22C 25/04](#) ; sorting in general [B07B](#), [B07C](#); counting in general [G06M](#))]

Definition statement

This subclass/group covers:

Fish sorting and grading devices, e.g. by weight, size, etc.

Fish counting device.

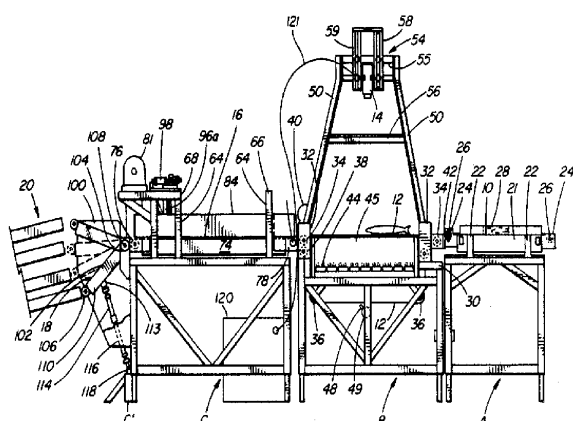
Fish holding system.

Devices for tracking objects under water.

Tagging systems, e.g. bass tags, implant tags, etc.

Fish behaviour control systems.

Harvesting and sorting devices for e.g. shrimp, oysters, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Sorting dead fish	A22C 25/04
Sorting in general	B07B , B07C
Counting in general	G06M

A01K 61/002

[N: Culture of bivalves, e.g. oysters, mussels]

Definition statement

This subclass/group covers:

Culture of molluscs (other than snails) in ponds, containers, streams, or open sea.

Containers therefor, also for (dead) fish.

Tools therefor, e.g. hoist for cases.

Devices for spreading oyster seed.

Methods for harvesting molluscs from substrates may be involved.

Culture of pearls, artificial pearls made from natural matter.

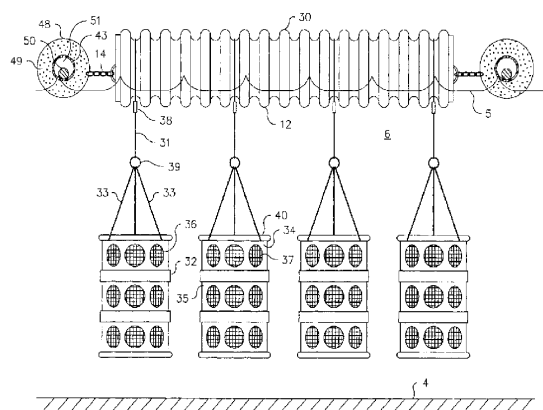
Methods and devices for protecting cultures from predators, etc.

Shell stringers.

Artificial reefs for molluscs, other than artificial seaweed.

Feeding devices for shellfish.

Harvesting methods and devices.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Marking or counting molluscs	A01K 61/001
Cleaning receptacles or ponds	A01K 61/003
Rearing snails	A01K 67/00
Harvesting oysters, scraping tiles	A01K 80/00
Artificial seaweed	E02B 3/043
Artificial reefs	E02B 3/06
Grading molluscs	A22C 29/00
Cleaning molluscs	A22C 29/04
Amphibious vehicles	B60F 1/00

A01K 61/003

[N: Cleaning bottoms or walls of ponds or receptacles (cleaning windows [A47L](#); cleaning in general [B08B](#); tank cleaning specially adapted for vessels [B63B 57/00](#); cleaning devices for hulls [B63B 59/00](#); devices for cleaning the submerged surfaces of a swimming pool [E04H 4/16](#))]

Definition statement

This subclass/group covers:

Cleaning devices for water tanks.

Devices for cleaning aquarium windows, by means of e.g. magnets.

Cleaning devices for under water apparatuses, e.g. tube-shaped subsea structures, etc.

Screen cleaners.

Devices for removing sediment.

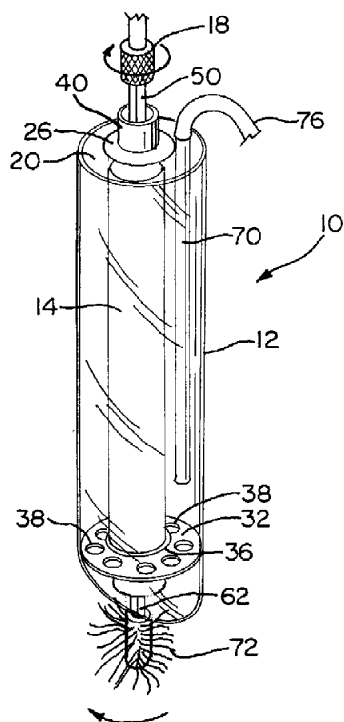
Devices for preventing algae from growing, e.g. by means of ultrasonic waves.

Devices for removing stains from walls under water.

Water recycling and filtering systems.

Fish manure removal device.

Details therefor, e.g. pumps, pipes, etc.



A01K 61/005

[N: Culture of crustacea, e.g. lobsters, prawns, shrimps]

Definition statement

This subclass/group covers:

Aquaculture farming systems for shrimp, shellfish, crayfish, lobster, etc.

Habitats therefor, e.g. (mating) tanks, containers, aquaria, etc. For raising aquatic animals in different stages of development.

Devices for handling eggs and larvae of shellfish (and similar animals), e.g. vacuum device, device for incubation, etc.

Methods for increasing the production of larvae.

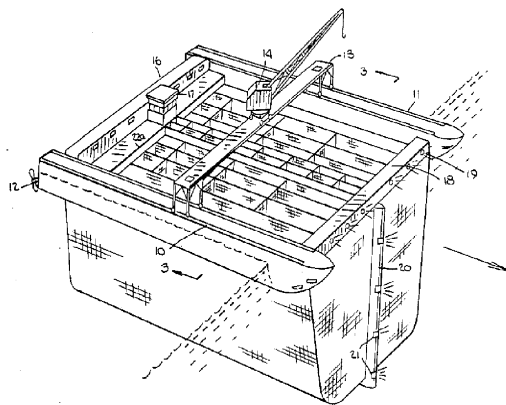
Harvesting devices for e.g. shrimp.

Devices may include feeding systems, water circulating devices, pollution control systems, etc.

Devices for raising and lowering net pens.

Devices for anchoring floating cages for fish, e.g. floating rings.

Submersible cages, rearing pens, fish trap, etc.



A01K 61/008

[N: Incubators or hatching devices for fish]

Definition statement

This subclass/group covers:

Devices for larvae breeding.

Devices for incubating eggs and larvae and transportation means therefor.

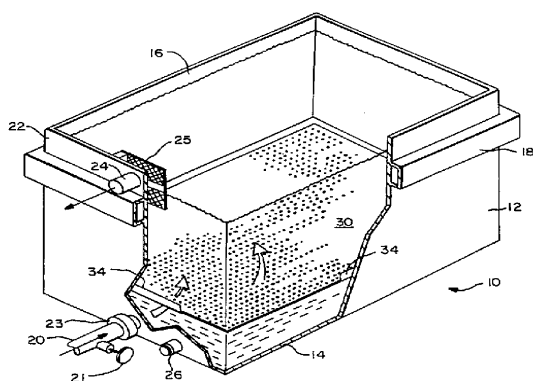
Devices for planting eggs.

Live-bearing-fish-breeding devices.

Hatcheries, may be part of fish farm.

Collector tanks for eggs.

Rearing procedures.



A01K 61/02

Feeding devices for fish [N: (fish food [A23K 1/188](#))]

Definition statement

This subclass/group covers:

Devices for feeding fish, may be floating, under water or at shore, e.g. centrifugal feed distributor, feed spreader, etc.

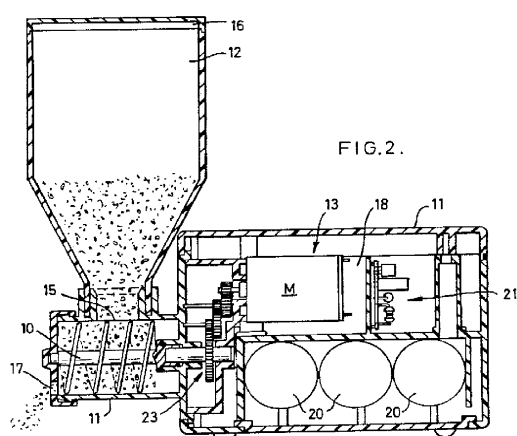
may be automatic, refrigerated.

may include dosing mechanism, time control device, etc.

Devices for measuring the rate of food loss in fish farming.

Fish attracting devices.

Devices for feeding live food.



A01K 61/025

[N: For use with aquaria]

Definition statement

This subclass/group covers:

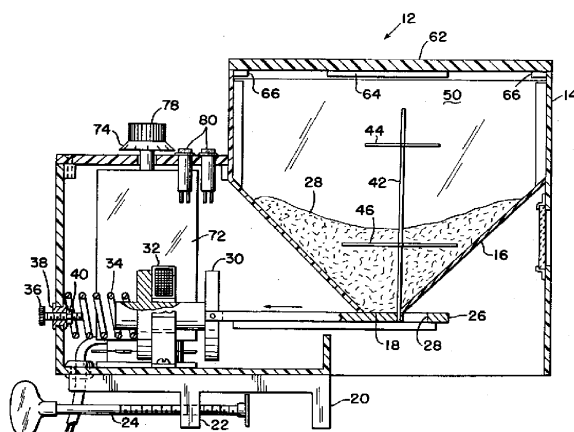
Fish-feeding devices specially adapted to aquaria, i.e. normally not applicable to open pond pisciculture etc.

The feeder may consist of foodstuff in a special form, e.g. applicable to an aquarium wall, e.g. wax-based fish food.

The feeder may contain, or even raise, living matter, e.g. algae.

Devices may include timing, lighting, filter or heating devices. However, of relevance is time-control only.

Feeding devices may be fish-operated or automatic.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Dispensing by dosing means	A01K 5/0233
With timing mechanisms	A01K 5/0291
Food for aquatic animals	A23K 1/188

A01K 63/00

Receptacles for live fish, e.g. aquaria, terraria (keep nets or other containers for keeping captured fish [A01K 97/20](#));
Terraria [N: (receptacles for rearing fish [A01K 61/00](#))]

Definition statement

This subclass/group covers:

Containers for fish or other water-organisms, or their eggs to be kept alive.
(Also tanks, aquaria, ponds, basins, etc.)

Devices for transporting water-organisms, e.g. containers, tanks, aquaria, etc.

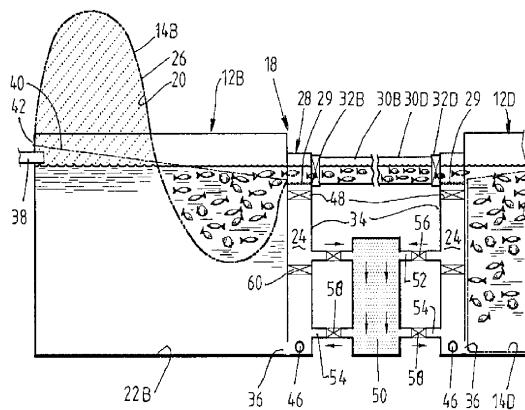
Catching or feeding means may be incorporated, but no rearing aspect present.

Containers may serve for use under or out of the water.

Organisms may be bait animals, e.g. small fish.

Containers may incorporate ancillary systems, e.g. for aerating, anti-frees, bird deterring device, etc.

Containers may comprise netted portions.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Culture of fish, mussels, crayfish, lobsters, sponges, pearls	A01K 61/00
Culture of bivalves	A01K 61/002
Aquaria, Terraria	A01K 63/003
Arrangements for treating water specially adapted	A01K 63/04
Methods or means of catching fish in bulk not provided	A01K 79/00
Keep nets	A01K 97/20

Package-containers for fish	B65D 85/50
Cargo vessel holds for live fish	B63C35/26

A01K 63/003

[N: Aquaria; Terraria ([A01K 63/04](#), [A01K 63/06](#) take precedence)]

Definition statement

This subclass/group covers:

Aquaria, terraria, or combinations thereof, also e.g. with plants etc.

may be mountable on wall, mobile, etc.

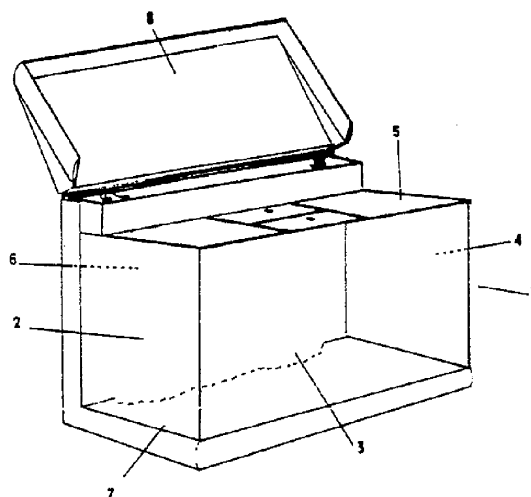
Combined devices for feeding, heating, lighting, filtration or water treatment.

Structural details, e.g. framework, etc.

Accessories, e.g. snail traps, breeding boxes, decorations, control boxes, etc.

Holders for accessories, e.g. suction holders.

Observation chambers for water-animals.



See also:

[A01K 47/00](#) Beehives.

[A01K 61/00](#) Culture of fish, mussels, crayfish, lobsters, sponges, pearls...

[A01K 61/003](#) Cleaning bottoms or walls of ponds or receptacles.

[A01K 63/00](#) Receptacles for live fish.

[A01K 63/04](#) Arrangements for treating water specially adapted to...

[A01K 67/00](#) Rearing or breeding animals, not otherwise provided for.

[A47F 3/00](#) Showcases...

[A01G 9/00](#) Flower boxes...

A01K 63/006

[N: Accessories for aquaria or terraria]

Definition statement

This subclass/group covers:

Ornaments for aquaria and terraria, e.g. (synthetic) plants, rocks, etc.

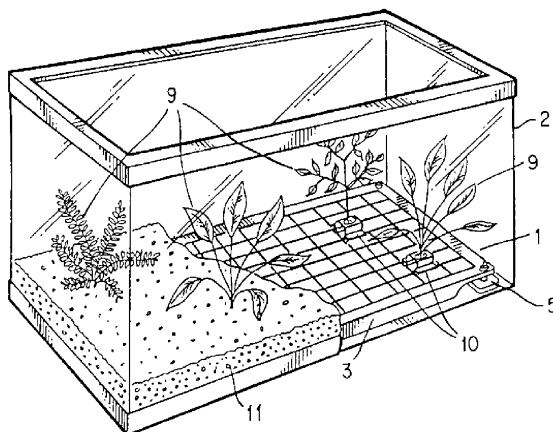
Water flow control devices e.g. a wave-making device.

Fountains.

Cleaning and filtration systems.

Supporting structures for aquaria and terraria.

Dividers for in aquaria en terraria.



A01K 63/02

Receptacles specially adapted for transporting live fish

Definition statement

This subclass/group covers:

Containers for transporting fish, shellfish or crustaceans.

Devices for displacement of live fish.

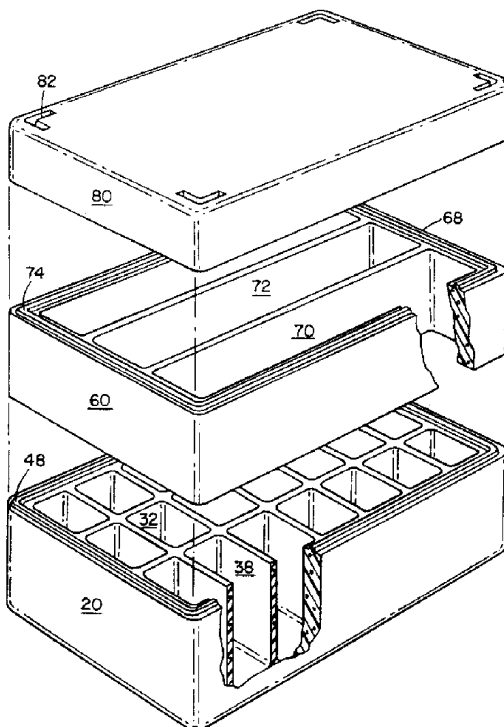
Transport devices for live baits, may include artificial muddy sand.

Packaging for oysters.

Means of suppressing motion functions in fish, e.g. anaesthetization.

Transport devices may include cooling system.

Animals may be separated or transported in groups.



A01K 63/04

Arrangements for treating water specially adapted to receptacles for live fish, [N: e.g. filters, water pumps] ([N: cleaning receptacles [A01K 61/003](#)];] filters in general [B01D](#); water treatment in general [C02F](#))

Definition statement

This subclass/group covers:

Water treatment devices specially adapted to aquaculture. Mostly for aquarium/ terrarium use, but also for other receptacles for aquaculture, e.g. holders for molluscs, or even ponds etc.

Aquarium filters, may be in combination with pumps.

Electr(olyt)ic water treatment.

Water treatment with (e.g. UV-) rays radiation.

Cleaning water or sand in aquaria.

(Aquarium) water outlets or inlets, e.g. siphons.

Pesticide dispensers for aquaria.

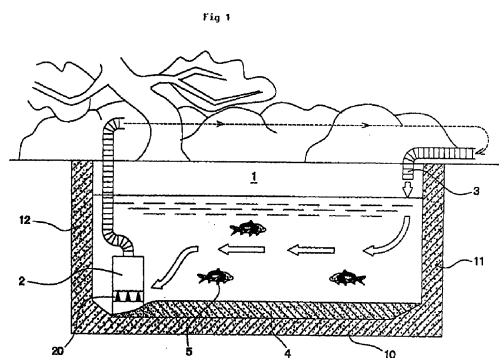
Devices for transferring water between different zones of e.g. ponds.

Artificial (see) water solutions.

Devices for removing pollution of aqueous bodies.

Devices for testing toxicity of water.

Means for acclimatising salt-water fish to brackish or fresh water.



See also:

[A01K 61/00](#) Culture of fish, mussels, crayfish, lobsters, sponges, pearls...

[A01K 61/003](#) Cleaning bottoms or walls of ponds or receptacles.

[A01K 63/003](#) Aquaria; Terraria.

[A01K 63/042](#) Introducing gases into the water.

[B01D 1/00](#) Filters in general...

B01J1/00 Ion exchange...

[C02F 1/00](#) Water treatment in general...

[F04F 1/00](#) Pumps in general...

[G01N 33/182](#) Monitoring water quality...

A01K 63/042

[N: Introducing gases into the water, e.g. aerators, air pumps]

Definition statement

This subclass/group covers:

Devices for introducing gasses into bodies of water, e.g. pumps, ducts, nozzles, etc.

may include filter device.

Aeration must not merely serve for water treatment in a filter vessel outside the rearing or storing water.

Aerators may be in combination with lights or ornaments.

Gases may be generated by transformation, e.g. from tablet.

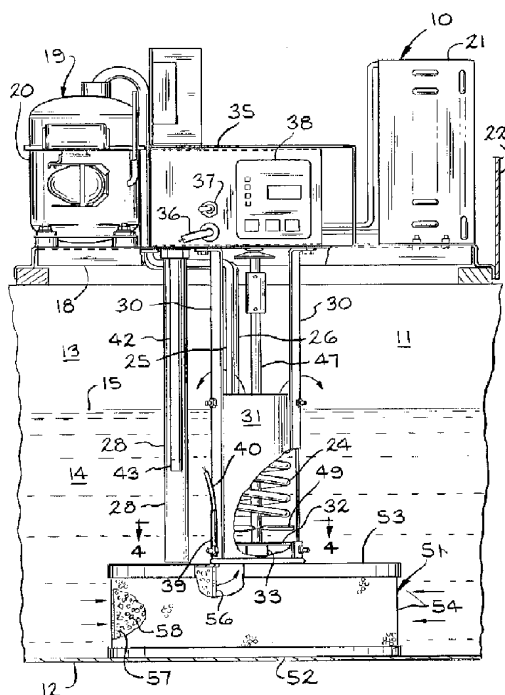
Gas introduction may involve water movement, cooling or heating.

Air filters.

Aeration of transport vessels if the vessels are not the main characteristic.

Protein skimmers, even if combined with conventional filters.

Devices for controlling the oxygen level in water.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Culture of fish, mussels, crayfish, lobsters, sponges, pearls	A01K 61/00
Receptacles for live fish	A01K 63/00
Aquaria; Terraria	A01K 63/003

A01K 63/045

[N: Filters for aquaria]

Definition statement

This subclass/group covers:

Filters for aquaria, may also be used for tanks, containers and ponds, e.g. water surface filter.

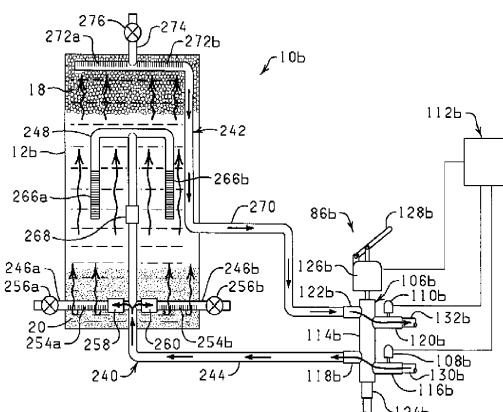
Devices may be placed in the water or outside.

Pumps in combination with filters.

Filter may be self-cleaning.

Details therefor, e.g. suction unit, water control valve, pipes, etc.

Computer automated filtration systems.



A01K 63/047

[N: Liquid pumps for aquaria (air pumps for aquaria [A01K](#)

[63/042](#))]

Definition statement

This subclass/group covers:

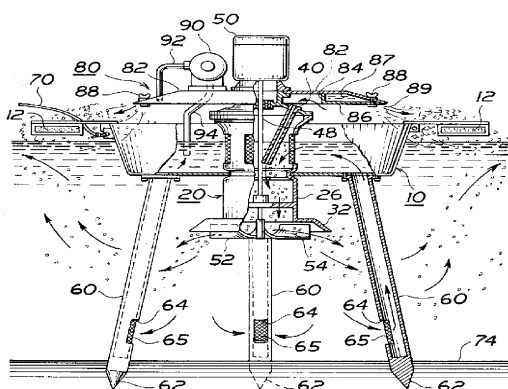
Pumps, mostly for aquaria, e.g. air pump, water pump, rotary pump, etc.

Housings for pumps, e.g. with vibration dampening or noise reducing means.

Devices for attaching pumps, e.g. to aquarium wall, etc.

Devices may include filter, aeration, cleaning system, etc.

Details therefor, e.g. valves, motor, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Air pumps for aquaria	A01K 63/042
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A01K 63/06

Arrangements for heating or lighting in, or attached to, receptacles for live fish (heating, [N: cooling] or lighting apparatus per se F21, H01, [H05B](#))

Definition statement

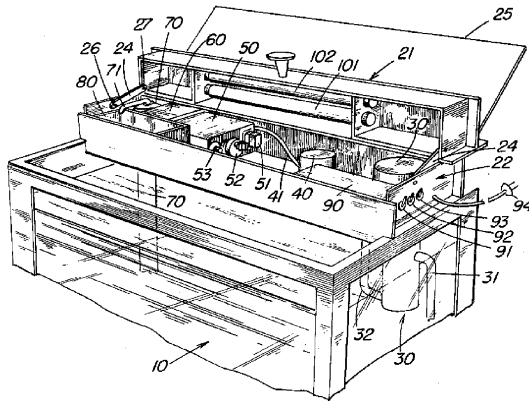
This subclass/group covers:

Aquarium lighting devices, may be incorporated in ornament, cover or wall of aquarium, terrarium, etc.

Heating devices for aquarium, terrarium, etc, may be in combination with lighting device.

Details therefor, e.g. light fittings, hanger for tubular lamps, lamp housing structures, etc.

Controlling devices for the environment, e.g. water temperature, etc.



A01K 63/065

[N: Heating or cooling devices]

Definition statement

This subclass/group covers:

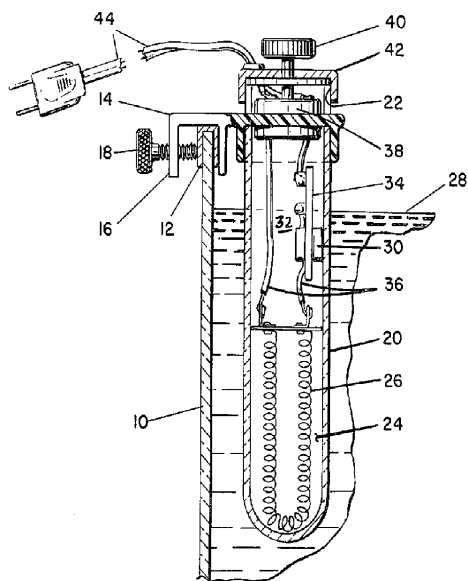
Heating and/or cooling devices for aquarium (heating/cooling water) or terrarium (heating/cooling air).

Holders for heating and cooling devices.

May include e.g. filter systems, lighting, etc.

Controlling devices for temperature.

Devices may be incorporated in an ornament.



A01K 65/00

Fish stringers [N: (devices for threading fish on strings [A22C 25/10](#))]

Definition statement

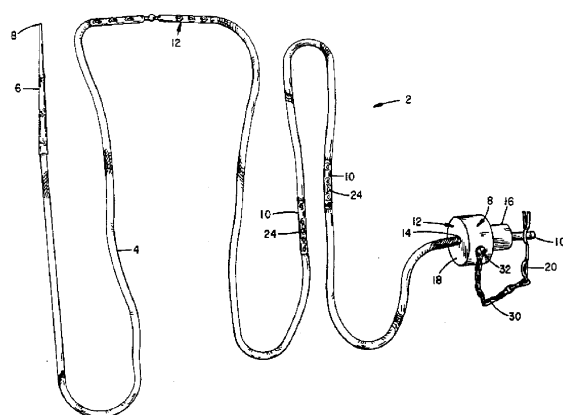
This subclass/group covers:

Fish-stringers, quick release stringers, spring fasteners, fishline holders, etc.

- may be mechanical.

details therefor, e.g. handles.

Devices may be floating, twist-free, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for threading fish on strings	A22C 25/10
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A01K 67/00

Rearing or breeding animals, not otherwise provided for; New breeds of animals (methods for reproduction or fertilisation [A61D 19/00](#); medicinal preparations containing sperm [A61K 35/52](#); tissue- or animal-cell cultivation apparatus [C12M 3/00](#); cultivation or maintenance of tissue or animal cells [C12N 5/00](#); mutation or genetic engineering [C12N 15/00](#))

Informative references

Attention is drawn to the following places, which may be of interest for search:

Methods for reproduction or fertilisation	A61D 19/00
Medicinal preparations containing sperm	A61K 35/52
Tissue- or animal-cell cultivation apparatus cultivation or maintenance of tissue or animal cells	C12M 3/00
Mutation or genetic engineering	C12N 15/00

A01K 67/02

Breeding vertebrates (covering boxes [A01K 15/00](#); devices for assisting or preventing mating [A01K 21/00](#))

Informative references

Attention is drawn to the following places, which may be of interest for search:

Covering boxes	A01K 15/00
Devices for assisting or preventing mating	A01K 21/00

Special rules of classification within this group

Documents relating to new peptides or new DNA or its corresponding mRNA encoding for peptides, and their use for the obtention of transgenic animals, are classified in subclass [C07K](#) or in group [C12N 9/00](#) according to the peptides, with the appropriate Indexing Codes]

A01K 67/033

Rearing or breeding invertebrates; New breeds of invertebrates (non-chemical sterilisation of invertebrates [A01M](#))

Informative references

Attention is drawn to the following places, which may be of interest for search:

Nonchemical sterilisation of invertebrates	A01M
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A01K 69/00

Stationary catching devices

Definition statement

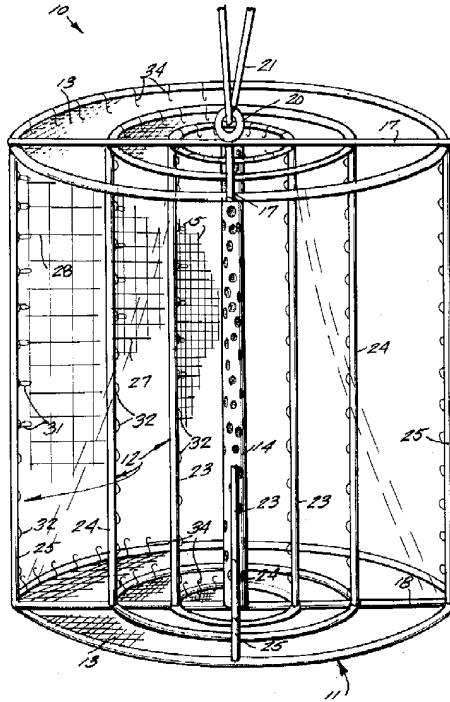
This subclass/group covers:

Fish and/or crab traps, e.g. nets, crabbing bait holders.

Reaction grill nets.

Fish attracting means.

Devices for unconfined fish farming.



A01K 69/04

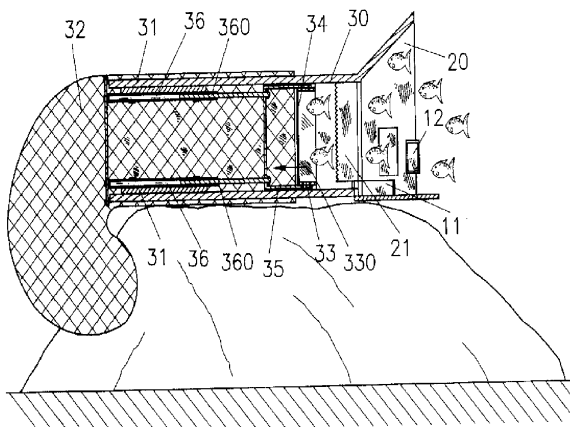
Fixed nets with traps

Definition statement

This subclass/group covers:

Fishing devices by means of fixed nets with traps.

Crab traps including nets.



A01K 69/06

Traps

Definition statement

This subclass/group covers:

Traps for fishes, crabs and other marine animals. e.g. shelter trap, etc.

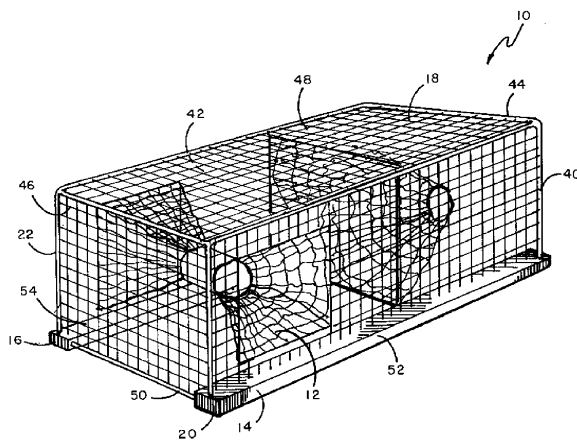
Entrance gates to traps.

Devices for attracting animals into a cage, e.g. bait bag, etc.

Devices for releasing bait in combination with a trap.

Traps may include signalling device.

Trap cleaning devices.



A01K 69/08

Rigid traps, e.g. lobster pots

Definition statement

This subclass/group covers:

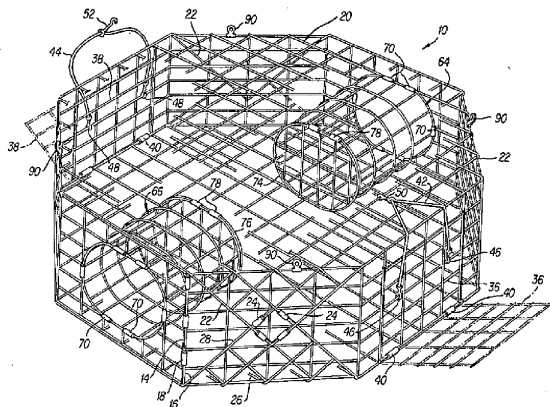
Rigid traps for catching, e.g. lobsters, crabs, fish, etc.

- may include escape gaps for undersized animals.

Entrance gates for these traps.

Means for marking the cages.

Devices for releasing baiting combination with these traps.



A01K 69/10

Collapsible traps

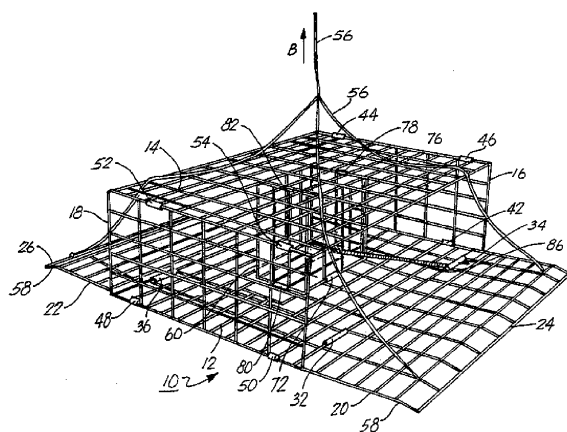
Definition statement

This subclass/group covers:

Collapsible traps for catching e.g. lobsters, crabs, fish, etc.

Collapsible bait traps.

Traps may be movable.



A01K 71/00

Floating nets [N: (if drawn [A01K 73/00](#))]

Definition statement

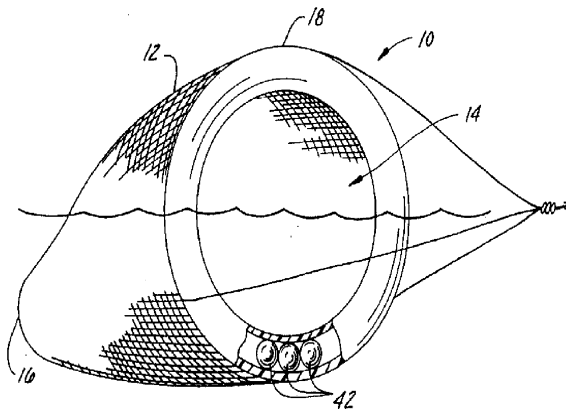
This subclass/group covers:

Fishing by means of floating nets.

The net may be connected to inflatable floating assemblies, floating material,

etc.

Floating fish baskets.



A01K 73/00

Drawn nets

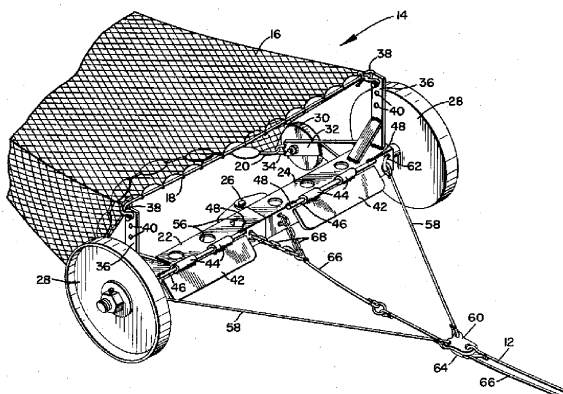
Definition statement

This subclass/group covers:

Drawn nets for catching fish or other marine animals, e.g. taking samples of the ocean bottom.

- may be by means of wheels.
- may include cages.

Devices for marking the nets.



A01K 73/02

Trawling nets

Definition statement

This subclass/group covers:

Trawling nets for catching fish and other marine animals.

- may include methods for sorting fish, e.g. size-sorting, etc.

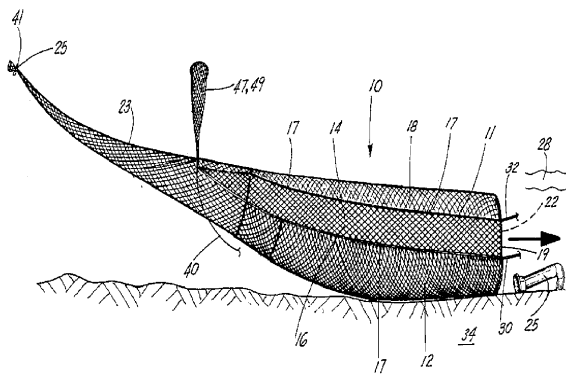
Devices for ensuring a proper opening of fishing nets.

Devices for towing nets, hauling gear, etc.

Trawls may be electrified.

Sweep lines for a bottom trawl.

Devices for steering trawling nets.



A01K 73/025

[N:Regulation of net depth]

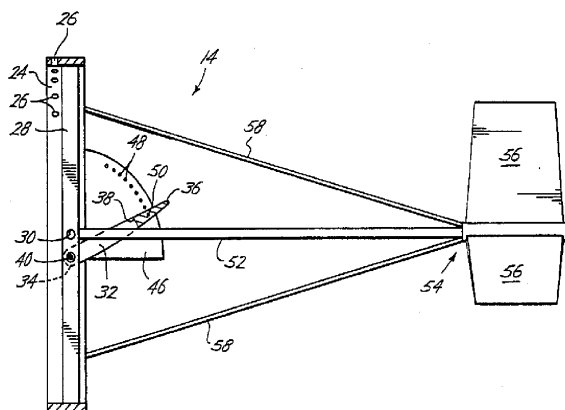
Definition statement

This subclass/group covers:

Devices for regulating the depth of fishing nets, e.g. with adjustable angle of elevation.

Depth controlling devices.

Devices for keeping nets closer to the seabed, e.g. ground rope, etc.



A01K 73/04

Devices for spreading or positioning, e.g. control thereof

Definition statement

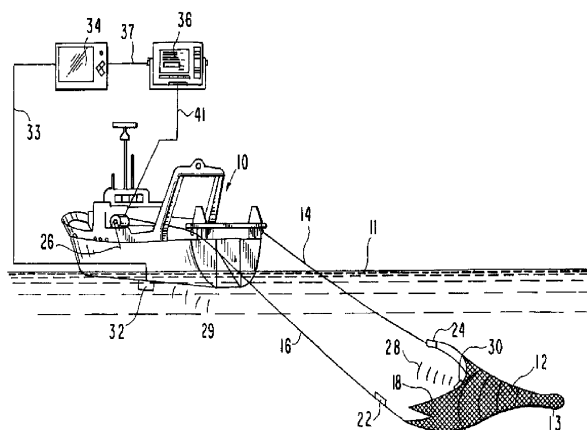
This subclass/group covers:

Devices for spreading and/or positioning fishing nets, e.g. float boards, special net fabric, etc.

Opening devices for nets e.g. collapse-mechanism, etc.

Steering devices for nets.

Devices for monitoring the angle settings of wires.



A01K 73/045

For lateral sheering, e.g. trawl boards.

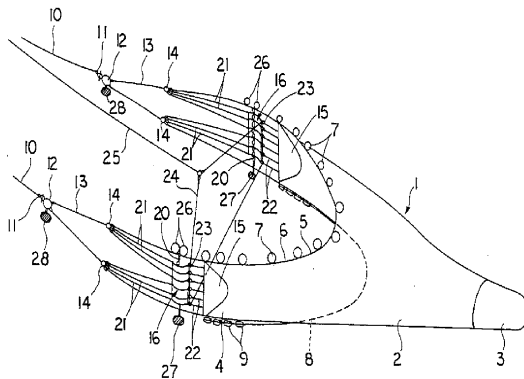
Definition statement

This subclass/group covers:

Devices for lateral sheering of fishing nets.

Details therefor, e.g. trawl boards, otter boards, etc.

Towing devices, lifting devices, etc.



A01K 73/05

For vertical sheering

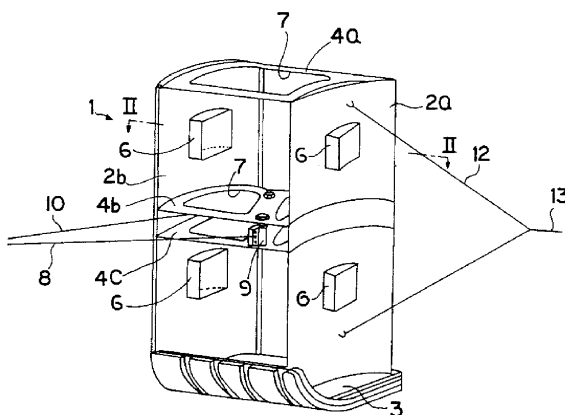
Definition statement

This subclass/group covers:

Devices for vertical sheering of fishing nets.

Details therefor, e.g. trawling gear, vertical suspensions, otter boards, etc.

Towing devices for nets.



A01K 73/053

Ground-line rollers

Definition statement

This subclass/group covers:

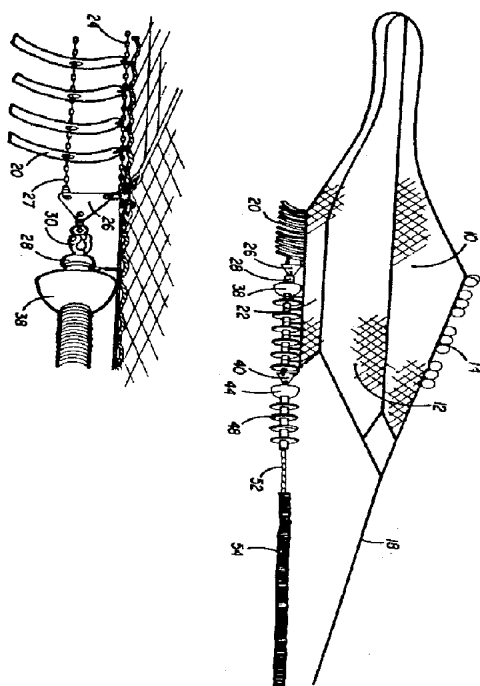
Rollers, wheels or balls intended to roll over the ground substantially in trawl

direction.

Ground-line rollers for fishing nets, e.g. footrope construction, etc.

Trailing devices, lead lines for fish nets, guide wheels, ground rope, tail planes, etc.

They may be attached to other parts of nets or lines than ground lines.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for spreading or positioning	A01K 73/04
Sinkers	A01K 75/06
Harvesting oysters, mussels, sponges or the like	A01K 80/00

A01K 73/06

Hauling devices for the headlines, [N: also for nets; Winches ([A01K 73/12](#) takes precedence)]

Definition statement

This subclass/group covers:

Devices or details involved in towing or hauling trawler headlines.

Devices for handling the whole net, e.g. discharging its contents.

Devices for controlling line traction or length or speed.

Winches or their control may be included, also engine control.

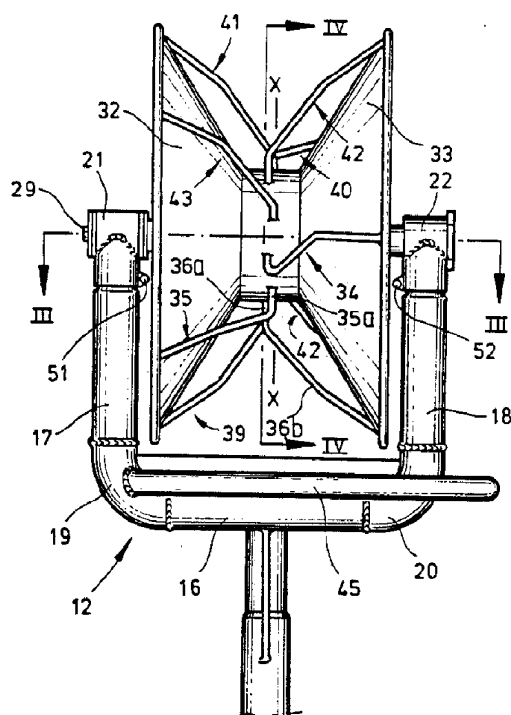
Details or headlines, e.g. special links, or load gauges.

Position control of net may also be involved.

Lines to be hauled may serve for other objects, e.g. lobster pots.

Discharging fish from net into boat, e.g. seine-net.

Devices may include devices for oiling/lubrication of cables.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Determining the quantity of the catch	A01K 73/10
Nets held vertically in the water	A01K 73/12
Trotline-handling	A01K91/06B

Winches; their control	B66D 1/00
Trawlers	B63B 35/00

A01K 73/10

Determining the quantity of the catch, e.g. by the pull or drag on the lines

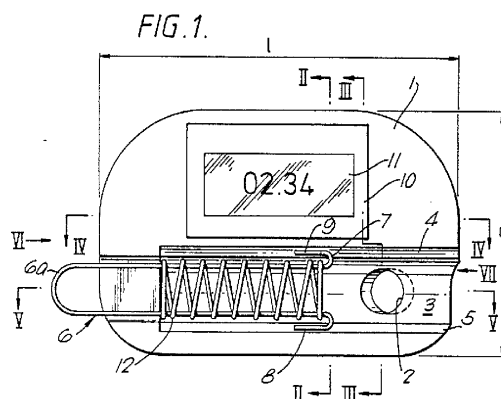
Definition statement

This subclass/group covers:

Devices for determining the quantity of the catch.

Devices for monitoring the forces in the cable.

Trawl cable vibration meter.



A01K 73/12

Nets held vertically in the water, e.g. seines

Definition statement

This subclass/group covers:

Seines, e.g. course-meshed seines, etc.

Cast nets, commercial fishing nets, etc.

Devices for preventing entrapment of sea mammals.

Purse-ring stripper devices.

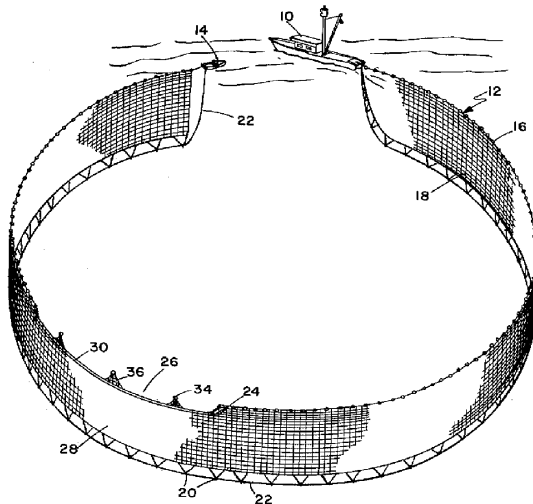
Devices for rearing shrimp, using nets held vertically in water.

Spar buoy pen systems.

Net joining structures.

Netting may be coloured.

Nets may include fish traps.



A01K 74/00

Other catching nets or the like

Definition statement

This subclass/group covers:

Other catching nets or the like, not provided for in other groups.

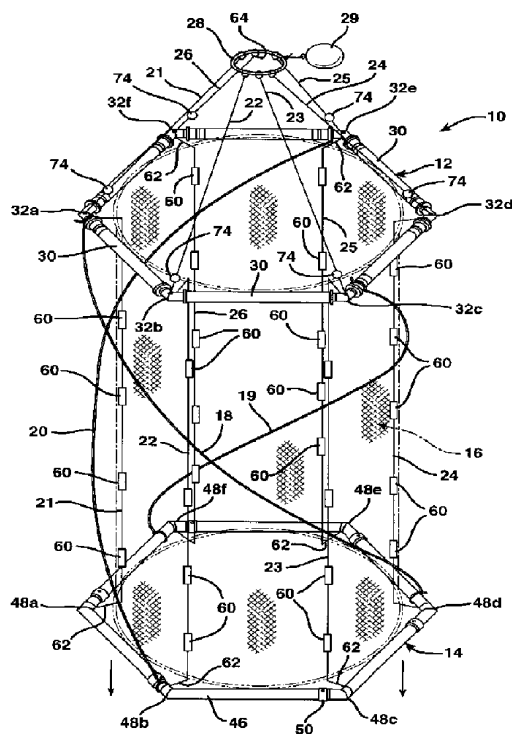
Devices for transporting and/or collecting fish.

Fish catching devices.

Fish lasso's.

Details for nets, e.g. brails, etc.

Fishing methods.



A01K 75/00

Accessories for nets; Details of nets, e.g. structure

Definition statement

This subclass/group covers:

Structure or manufacture of nets (even if limited to particular kinds of nets) or their cables or wires.

Details of nets, e.g. connectors.

Auxiliary features, e.g. electronic accessories, other than mere illumination.

Measuring devices for or on nets, e.g. for controlling their length.

Protective devices on nets, e.g. armour plates.

Devices embracing floats and/or sinkers, e.g. their embedding in a special cable.

Handling nets (mostly ashore or on board), e.g. holding, shaking.

Devices for protecting animals, e.g. whale release device, etc.

Cleaning devices for e.g. nets.

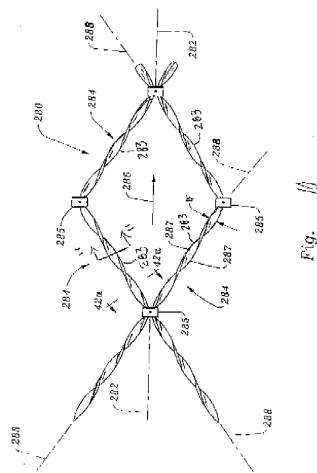


Fig. 11

Informative references

Attention is drawn to the following places, which may be of interest for search:

Receptacles for live fish	A01K 63/00
Hauling devices for the headlines	A01K 73/06
Determining the quantity of the catch	A01K 73/10
Methods or means of catching fish in bulk	A01K 79/00
By electrocution	A01K 79/02
Harvesting oysters, mussels, sponges or the like	A01K 80/00
Drying fishing lines	A01K 97/16

A01K 75/02

Illuminating devices for nets

Definition statement

This subclass/group covers:

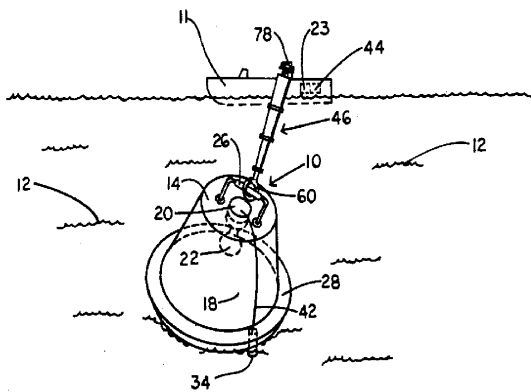
Illumines devices for nets and other devices for catching fish, may be chemo-light, etc.

Floating fishing lights.

Luminous fishing lure tackles.

Luminous bait.

Reflective fishing nets.



A01K 75/04

Floats (for angling [A01K 93/00](#))

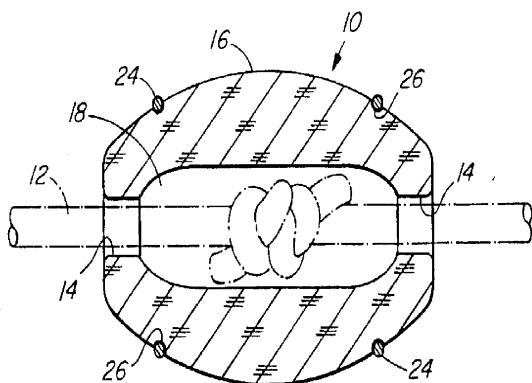
Definition statement

This subclass/group covers:

Floats, e.g. a buoyancy float, pneumatic float, etc.

- May consist of cork, foam rubber, etc.
- may be illuminated.

Devices for attaching ropes/nets to floats, e.g. clamps.



A01K 75/06

Sinkers (for angling [A01K 95/00](#))

Definition statement

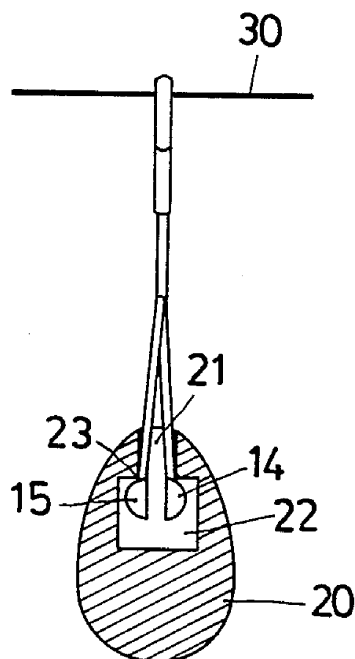
This subclass/group covers:

Devices for ballasting nets or net-lines, if not intended to roll over the ground substantially in trawl direction.

Sinkers forming part of specific net structures are found in groups for those structures.

Groundrope bobbins, dan-lenno bobbins.

Weighted lines, sink lines, drag-devices.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Culture of fish, mussels, crayfish, lobsters, sponges, pearls	A01K 61/00
Culture of bivalves, e.g. oysters, mussels	A01K 61/002
Receptacles for live fish	A01K 63/00

Stationary catching devices	A01K 69/00
Traps	A01K 69/06
Rigid traps	A01K 69/08
Devices for spreading or positioning	A01K 73/04
Ground-line rollers	A01K 73/053
Angling ballast sinkers	A01K 95/00

A01K 77/00

Landing-nets; Landing-spoons

Definition statement

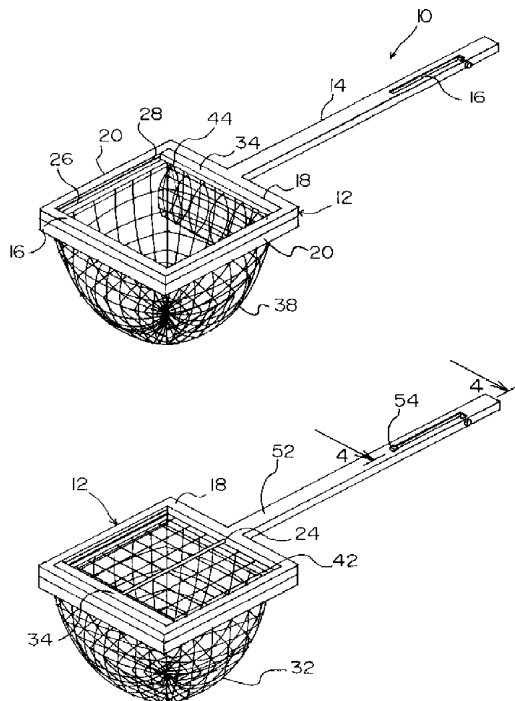
This subclass/group covers:

Landing-nets, kesher, may be lightweight, collapsible, etc.

Handles for fishing-nets, may be extensible, collapsible, etc.

Devices may be useful for other purposes, e.g. egg retriever, swimming pool skinner, etc.

Details therefor, e.g. locking mechanisms, etc.



A01K 79/00

Methods or means of catching fish in bulk not provided for in groups [A01K 69/00](#) to [A01K 77/00](#), [N: e.g. fish pumps; Detection of fish; Whale fishery]

Definition statement

This subclass/group covers:

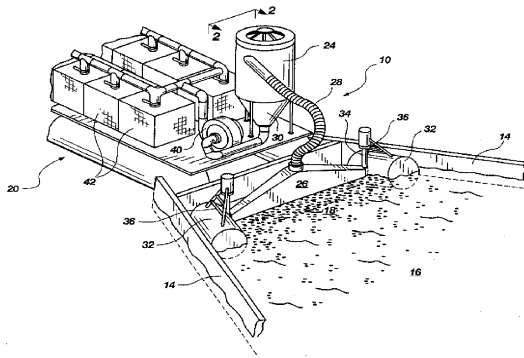
Devices for separating target and non-target species harvested from water bodies.

Devices for harvesting marine animals, e.g. brine shrimp harvester.

Devices for displacement of live fish.

Devices for determining the quantity of plankton. Devices for handling whales (carcasses).

Observation systems, ultrasonic submarine sounding equipment, etc.



A01K 79/02

by electrocution (electric circuits therefor [H05C](#)); [N: Attracting or stunning fish; Scaring sharks]

Definition statement

This subclass/group covers:

Inducing movement into fish, shrimp, shellfish, etc, by electricity.

Inducing electrotaxy (directed swimming).

Stunning of fish and whales, by electricity.

Killing fish, before and after catching them, by means of electricity.

Special forms of appearance of electric current used, e.g. pulses.

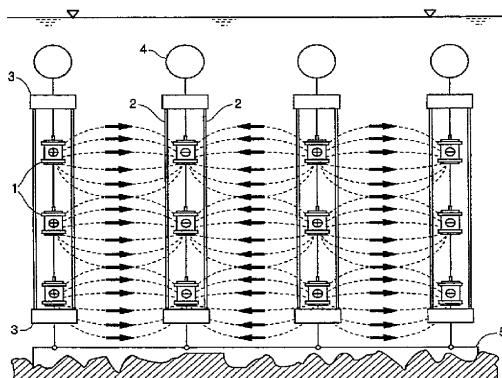
Retrieving fish etc., by electrically induced movement.

Electric hooks for angling (stunning or killing biting fish).

Using water as conductor, for operating, e.g. echo-sounding.

A luring light may be involved or used alone in catching fish.

Attracting or scaring fish etc., by means other than electricity, e.g. by bait-spreading, air bubbles, shock waves, sound, etc.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Training or exercise equipment	A01K 15/02
Scaring in general	A01M 29/00
Fish repellents for hydroplants	E02B 1/006

A01K 80/00

Harvesting oysters, mussels, sponges or the like, [N: e.g. drags, clam diggers, marine life collectors] (nets [A01K 73/00](#), [A01K 74/00](#); dredgers [E02F](#))

Definition statement

This subclass/group covers:

Drags for catching organisms on or under ground, other than normal dragnets having ground-chains or the like.

Devices for scraping mussels poles or oyster tiles etc., also for de-scaling.

Suction harvesting devices for ground-living organisms.

Plankton harvesters, also research purposes.

Marine specimen collectors or samplers.

Dredgers for clams, etc.

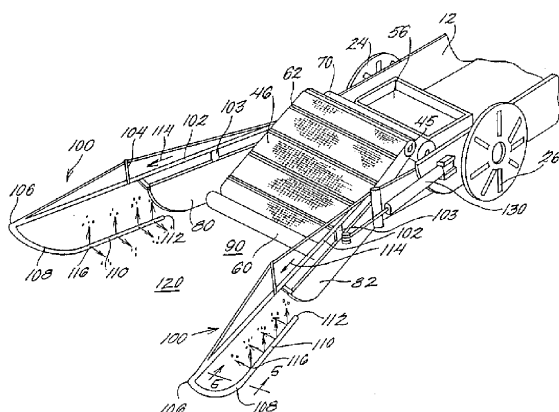
Crab catchers.

Clam diggers.

Sponge harvesting.

Oyster tongs.

Rakes, for treating oyster ground bottom surface.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Culture of fish, mussels, crayfish, lobsters, sponges, pearls	A01K 61/00
Sorting, grading, counting or marking live fish	A01K 61/001
Culture of bivalves, e.g. oysters, mussels	A01K 61/002
Trawling nets	A01K 73/02
Methods or means of catching fish in bulk	A01K 79/00
Nets	A01K 73/00
Nets	A01K 74/00
Cultivation of seaweed or algae	A01G 33/00
Amphibious vehicles	B60F 1/00
Dredgers in general	E02F

A01K 81/00

Fishing with projectiles (weapons, projectiles other than fish-spears F41, F42)

Definition statement

This subclass/group covers:

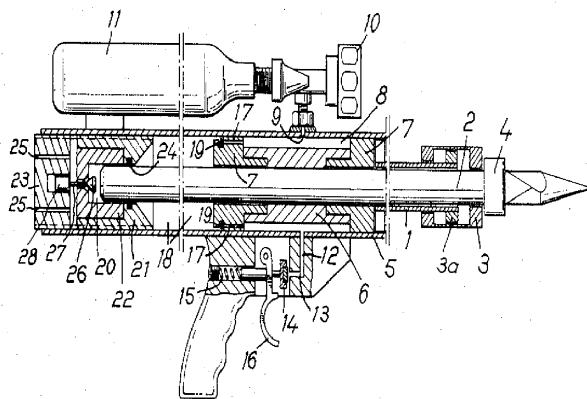
Harpoons, e.g. fish tag harpoon.

Under water guns, e.g. shark gun. Details therefor, e.g. gun barrel, firing mechanism, etc.

Fishing arrows, archery fish points, etc.

Devices may include explosive head/ projectiles, tranquilizers, etc.

Fish darts, e.g. electric anti-shark dart.



A01K 81/04

Fish-spears

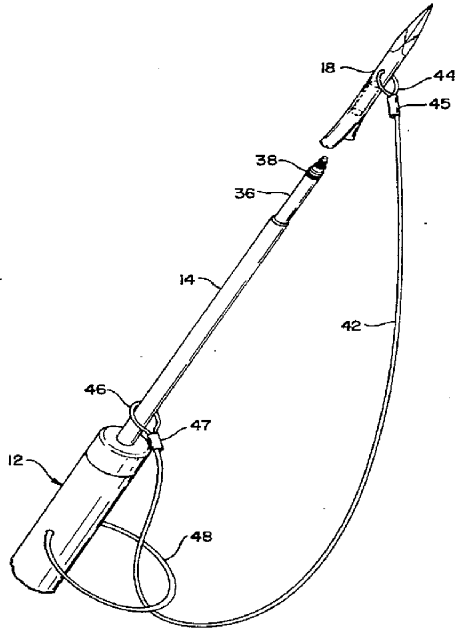
Definition statement

This subclass/group covers:

Fish spears, may include electricity, explosive head, etc.

Precision system for releasing e.g. a harpoon.

Arrow heads.



A01K 81/06

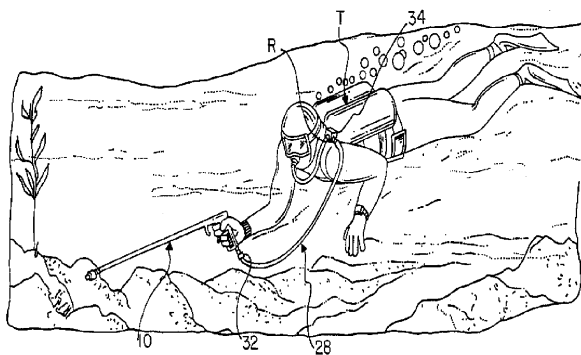
Equipment for hunting fish under water (swimming equipment [A63B 31/00](#) to [A63B 35/00](#))

Definition statement

This subclass/group covers:

Safety guns.

Details therefor, e.g. stretching mechanism for crossbow, special arrow guide in the handle, etc.



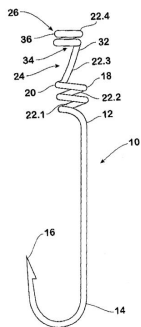
A01K 83/00

Fish-hooks [N: (making fish-hooks [B21F 45/12](#))]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



References relevant to classification in this group

This subclass/group does not cover:

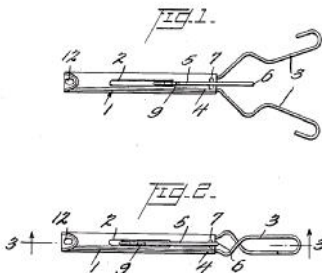
Making fish-hooks	B21F 45/12
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A01K 83/02

Expanding fish-hook assembly

Definition statement

This subclass/group covers:



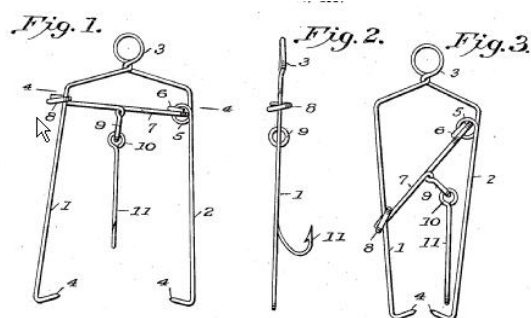
A01K 83/04

with special gripping arms

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



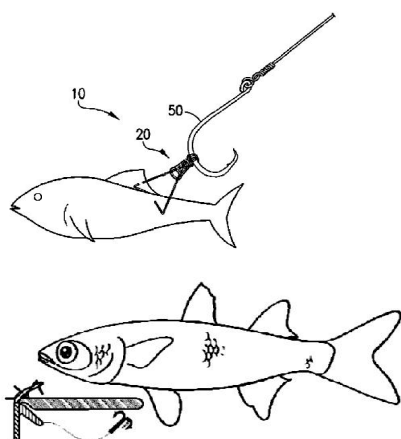
A01K 83/06

Devices for holding bait on hooks [N: (baiting trotlines [A01K 91/18](#); non-living bait [A01K 97/045](#))]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



References relevant to classification in this group

This subclass/group does not cover:

Baiting trotlines	A01K 91/18
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Non-living bait not held on hooks	A01K 97/045
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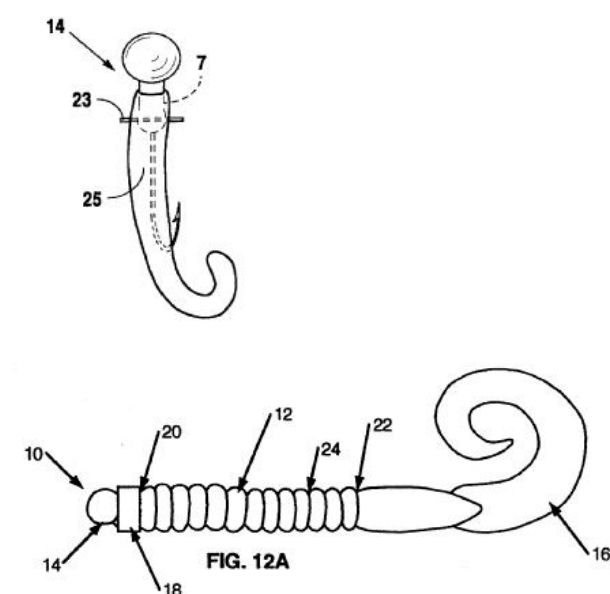
A01K 85/00

Artificial baits, [N: i.e. Lures]

Definition statement

This subclass/group covers:

Jigheads, soft lures, lures combining several features of subclasses.



References relevant to classification in this group

This subclass/group does not cover:

Ground bait	A01K 97/02
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Informative references

Attention is drawn to the following places, which may be of interest for search:

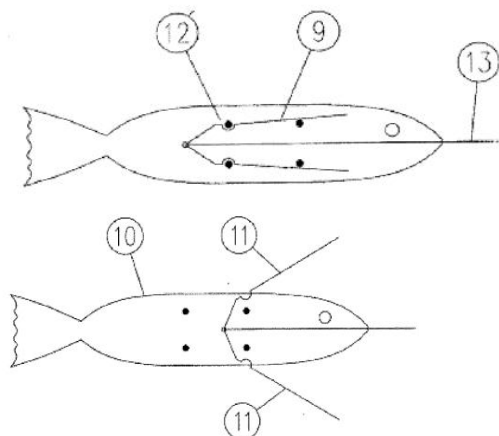
Device for holding bait on hooks	A01K 83/06
----------------------------------	----------------------------

A01K 85/005

[N: without hooks]

Definition statement

This subclass/group covers:

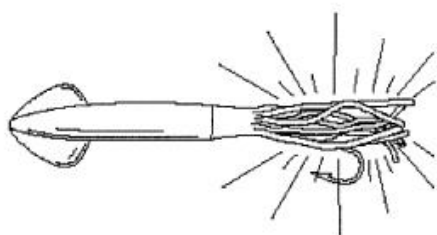


A01K 85/01

with light emission, sound emission, scent dispersal or the like

Definition statement

This subclass/group covers:



References relevant to classification in this group

This subclass/group does not cover:

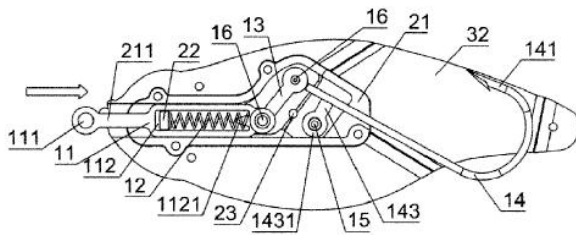
Attracting fish with lighting or sound device not attached to fishing line	A01K 97/02
--	----------------------------

A01K 85/02

with means for concealing or protecting hooks, e.g. to prevent entanglement with weeds

Definition statement

This subclass/group covers:

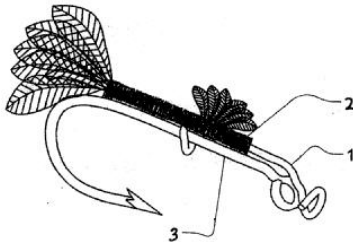


A01K 85/08

Artificial flies

Definition statement

This subclass/group covers:



References relevant to classification in this group

This subclass/group does not cover:

Fishing fly tying devices	A01K 97/26
Vice adapted for fly tying	A01K 97/28

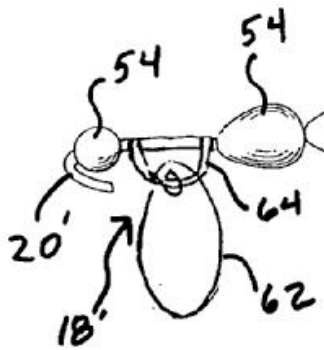
A01K 85/10

with at least one flat rotating body having its axis of rotation substantially non-coincident with the longitudinal axis of the body

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



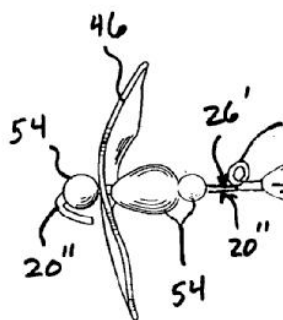
A01K 85/12

comprising a body rotating around its longitudinal axis, e.g. devons

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



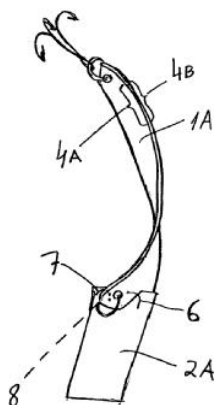
A01K 85/14

with flat, or substantially flat, undulating bodies, e.g. spoons

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



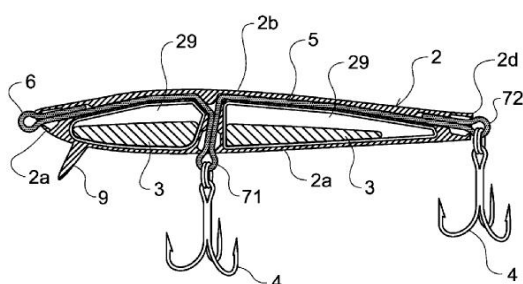
A01K 85/16

with other than flat, or substantially flat, undulating bodies,
e.g. plugs

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



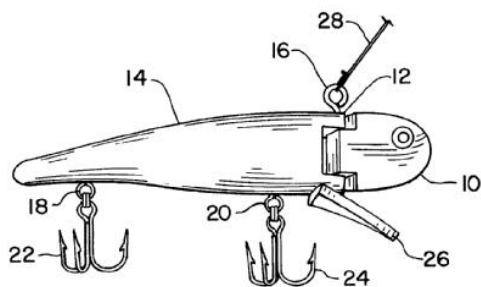
A01K 85/18

in two or more pieces

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



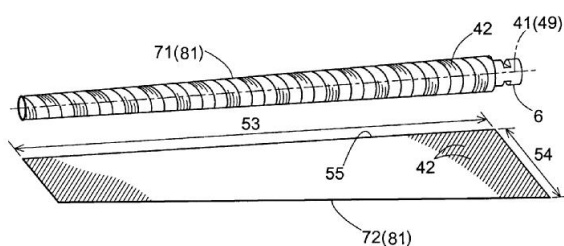
A01K 87/00

Rods

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



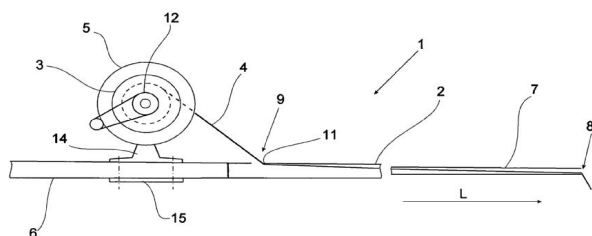
A01K 87/002

[N: with the line passing through the hollow rod]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



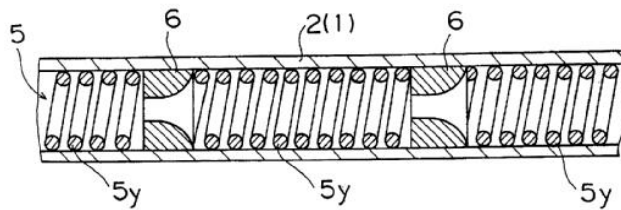
A01K 87/005

[N: comprising internal line guides]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



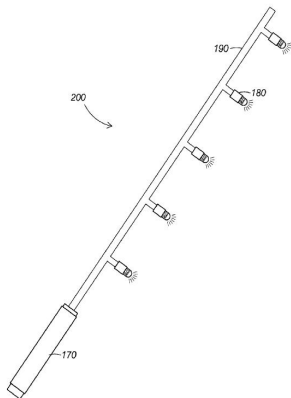
A01K 87/007

[N: with built-in accessories, e.g. lighting means or measuring devices]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Containers or holders for hooks, lines, sinkers	A01K 97/06
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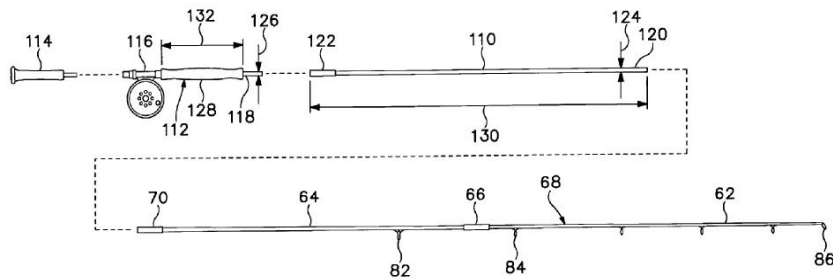
A01K 87/02

Connecting devices for parts of the rods

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



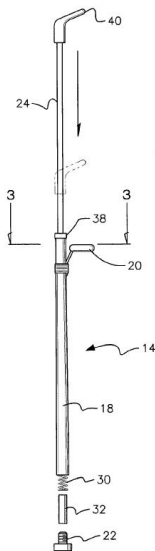
A01K 87/025

[N: telescopic]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



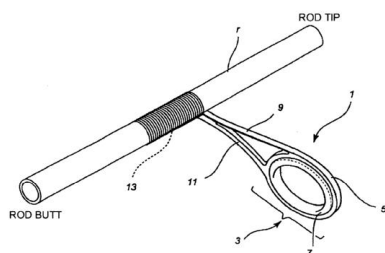
A01K 87/04

Fishing-line guides on rods, [N: e.g. tips]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



References relevant to classification in this group

This subclass/group does not cover:

Internal line guides	A01K 87/005
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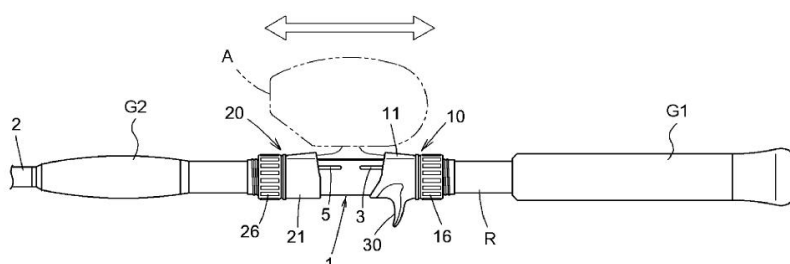
A01K 87/06

Devices for fixing reels on rods

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



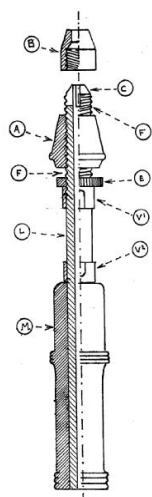
A01K 87/08

Handgrips

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



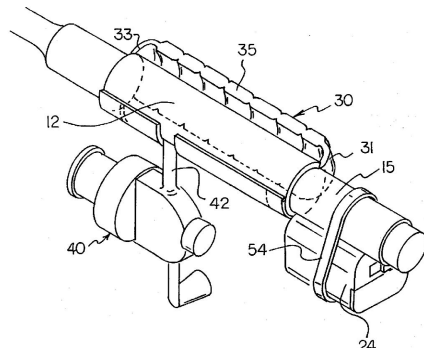
A01K 87/085

[N: Heating devices or other means to protect against the cold]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



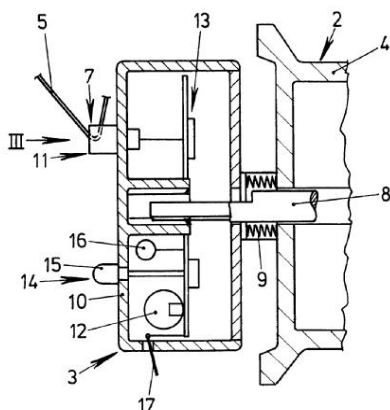
A01K 89/00

Reels (devices for casting lines [A01K 91/02](#))

Definition statement

This subclass/group covers:

Fishing reels



References relevant to classification in this group

This subclass/group does not cover:

Devices for casting lines	A01K 91/02
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Reels and spools for storing webs, tapes, or filamentary material	B65H 75/00
Toothed gearing in general	F16H 1/00
Containers or holders for lines	A01K 97/06
Reel covers within fishing rod containers	A01K 97/08

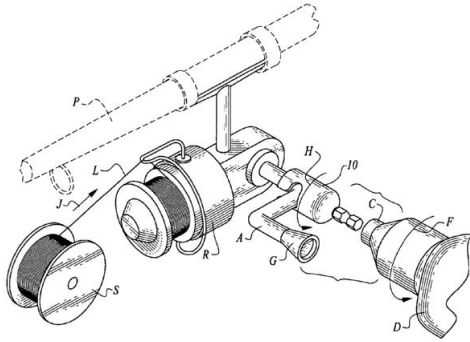
A01K 89/003

[N: Devices for transferring line to a reel]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



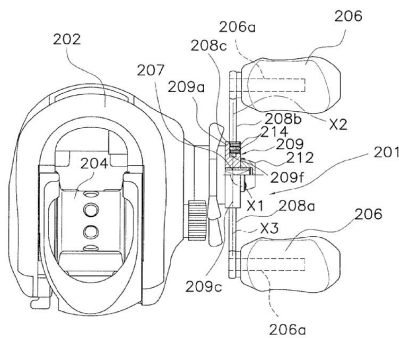
A01K 89/006

[N: Cranks]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



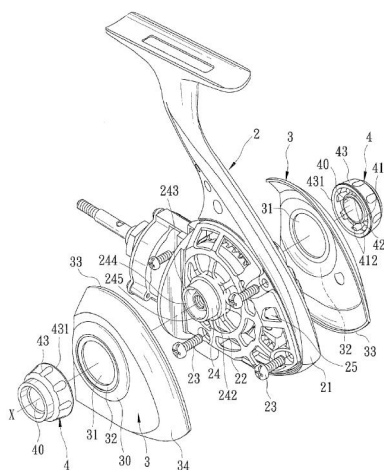
A01K 89/01

with pick-up, i.e. with the guiding member rotating and the spool being stationary during normal retrieval of the line
([A01K 89/027](#) takes precedence)

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



References relevant to classification in this group

This subclass/group does not cover:

Brake devices for reels with pick-up	A01K 89/027
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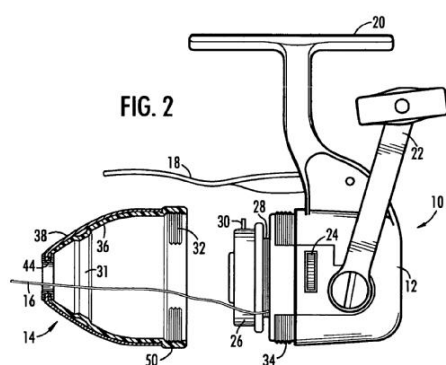
A01K 89/0102

[N: with closed face]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



References relevant to classification in this group

This subclass/group does not cover:

Brake devices for closed face reels	A01K 89/0275
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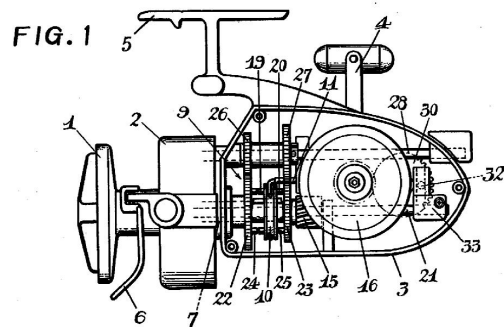
A01K 89/0105

[N: Multi-speed mechanisms]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



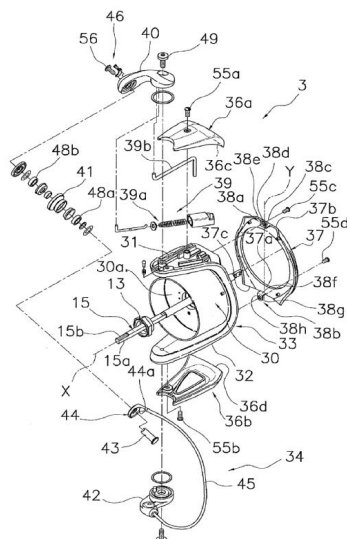
A01K 89/0108

[N: Pick-up details]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



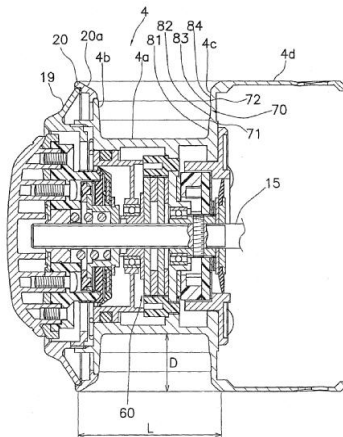
A01K 89/0111

[N: Spool details]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



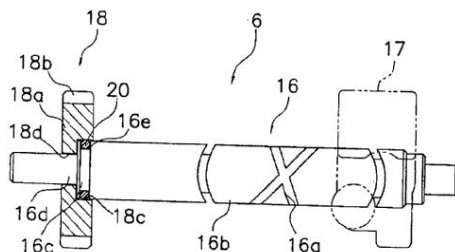
A01K 89/0114

[N: Reciprocating mechanisms]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



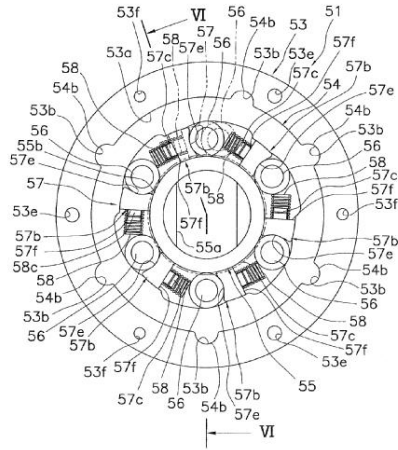
A01K 89/0117

[N: Anti-reverse mechanisms]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



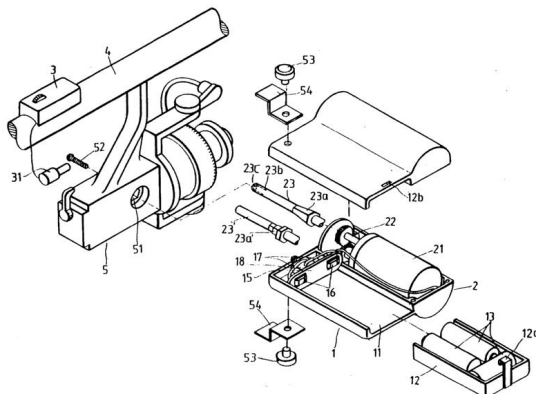
A01K 89/012

motor-driven

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



A01K 89/015

with rotary drum ([A01K 89/033](#) takes precedence)

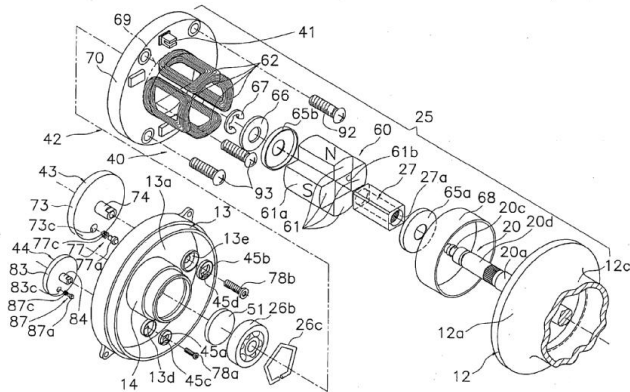
Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.

This subclass/group covers:

Illustrative example of subject matter classified in this group.



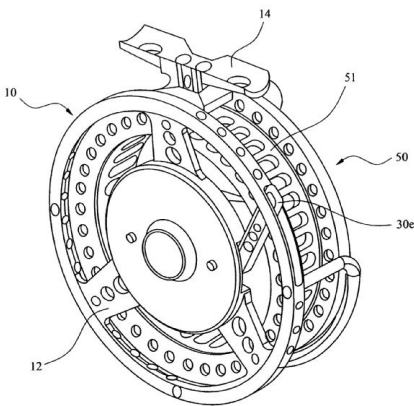
A01K 89/016

Fly reels

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



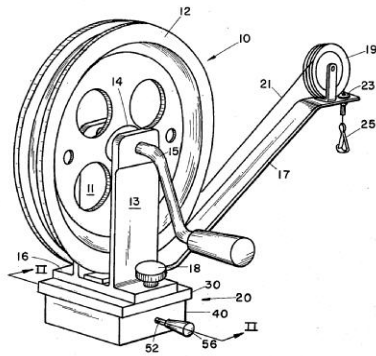
A01K 89/0165

for trolling

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



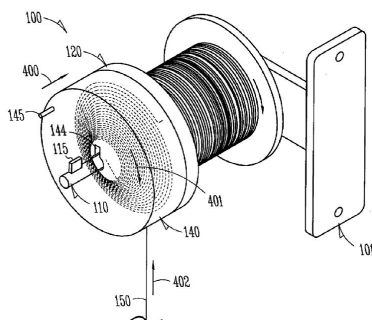
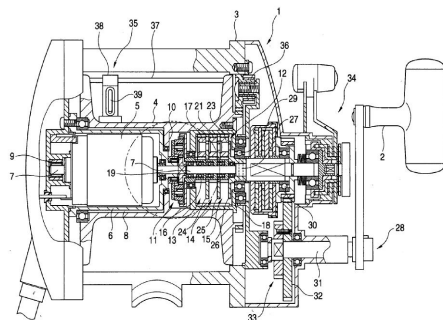
A01K 89/017

motor-driven

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



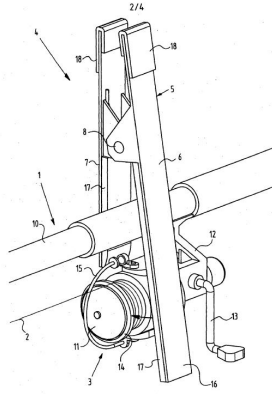
A01K 89/02

Brake devices for reels

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



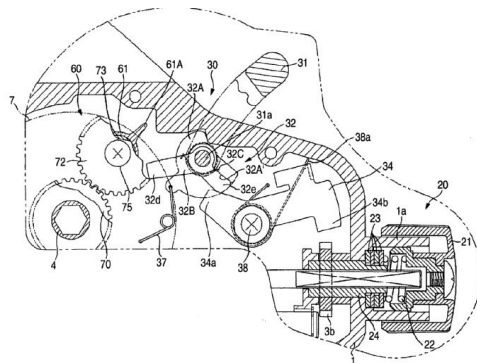
A01K 89/027

with pick-up

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



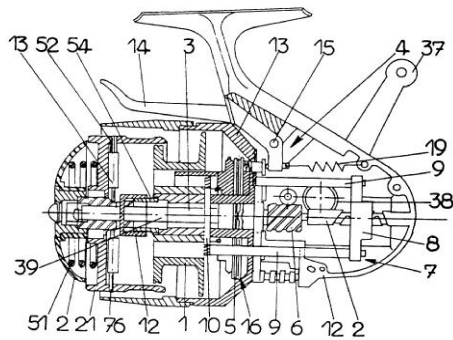
A01K 89/0275

[N: with closed face]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



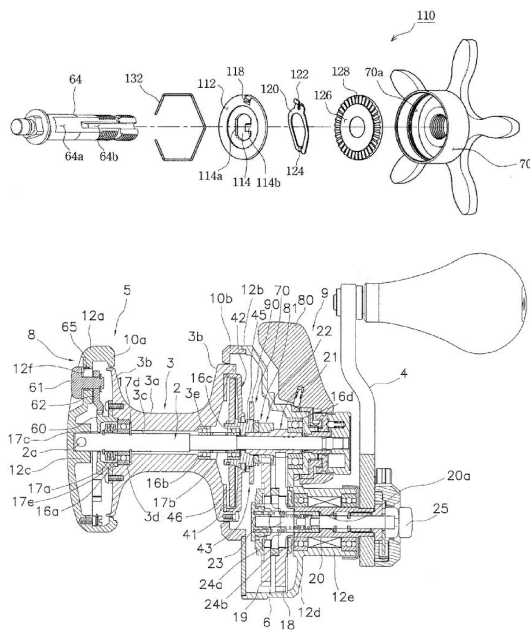
A01K 89/033

with rotary drum

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



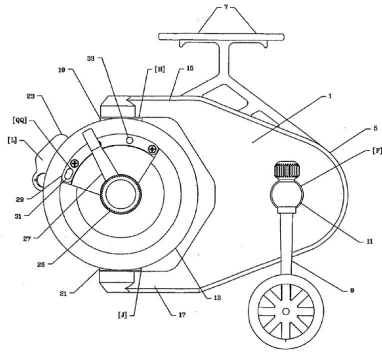
A01K 89/06

Reversible reels

Definition statement

This subclass/group covers:

Fishing reels with a casting position and a fishing position with regard to the fishing rod.



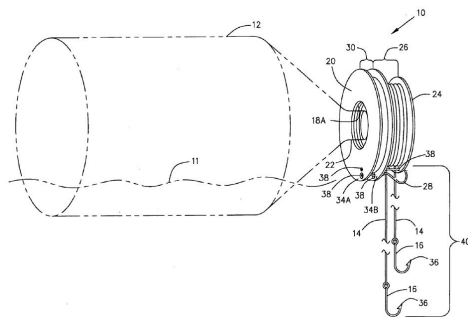
A01K 89/08

Pole-less fishing apparatus, i.e. hand-held reels

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



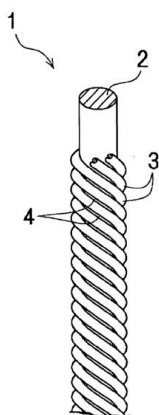
A01K 91/00

Lines

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



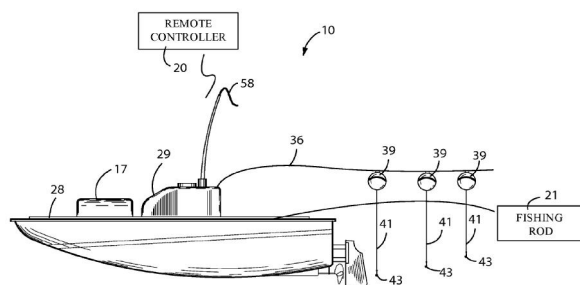
A01K 91/02

Devices for casting lines

Definition statement

This subclass/group covers:

Projectiles for casting fishing lines, remote controlled boats, kites, casting aids.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for laying ground-bait	A01K 97/02
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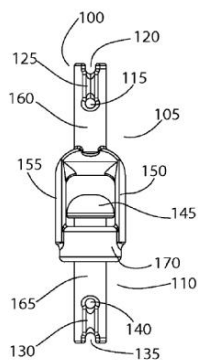
A01K 91/03

Connecting devices

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



References relevant to classification in this group

This subclass/group does not cover:

Devices for fixing on or removing sinkers from lines	A01K 95/02
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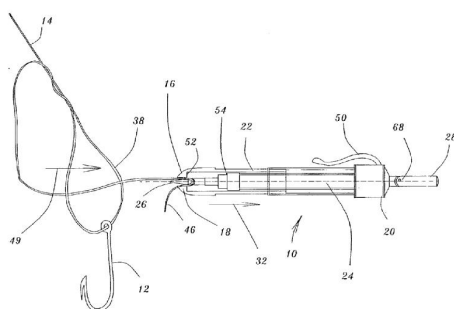
A01K 91/04

for connecting lines to hooks or lures

Definition statement

This subclass/group covers:

Knot tying devices.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Rigid hand tools for non-rotary grinding, polishing, or stropping	B24D 15/02
Knot-tying devices in general	B65H 69/04
Other knotting	D04G 5/00

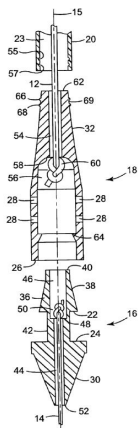
A01K 91/047

for connecting lines to lines

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



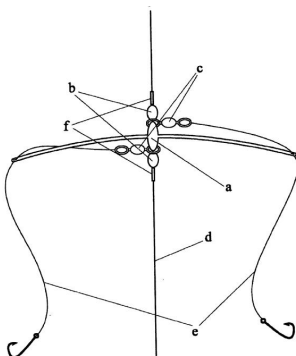
A01K 91/053

Fishing booms, i.e. connecting devices spreading out the leaders, e.g. to avoid tangling thereof

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



A01K 91/06

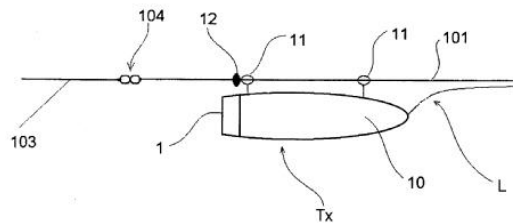
Apparatus on lines not otherwise provided for, e.g. automatic

hookers

Definition statement

This subclass/group covers:

Fishing line stops, flashers, etc.



References relevant to classification in this group

This subclass/group does not cover:

Floats	A01K 93/00
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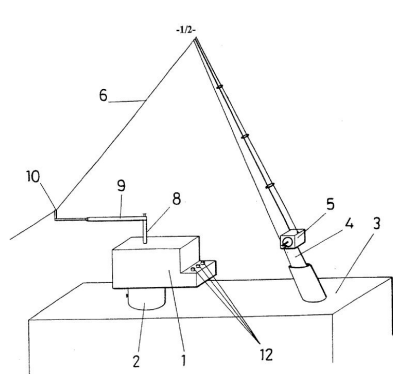
A01K 91/065

[N: Jiggling devices, i.e. devices for moving the lure]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.

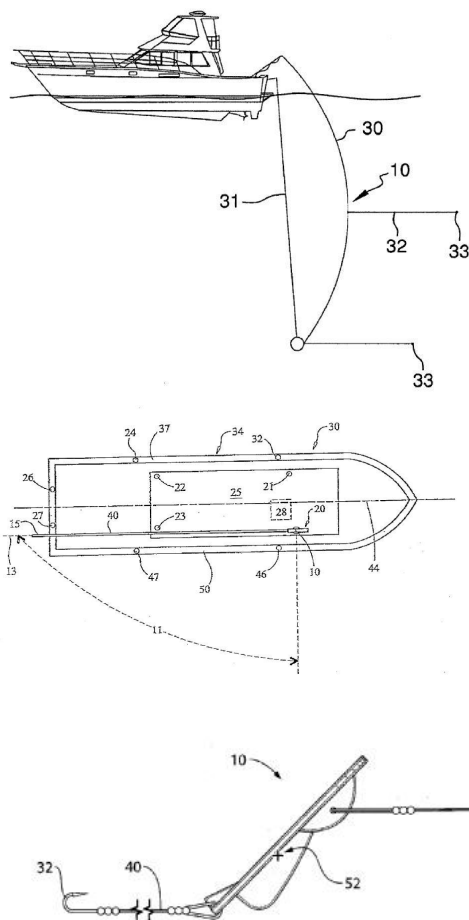


A01K 91/08

Trolling devices

Definition statement

This subclass/group covers:
Outriggers, downriggers, etc.

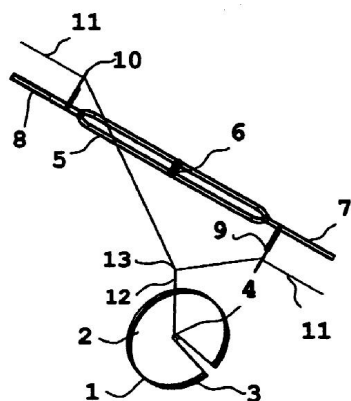


A01K 91/10

for automatic hook setting

Definition statement

This subclass/group covers:
Illustrative example of subject matter classified in this group.



References relevant to classification in this group

This subclass/group does not cover:

Supports for rods with automatic hook setting	A01K 97/11
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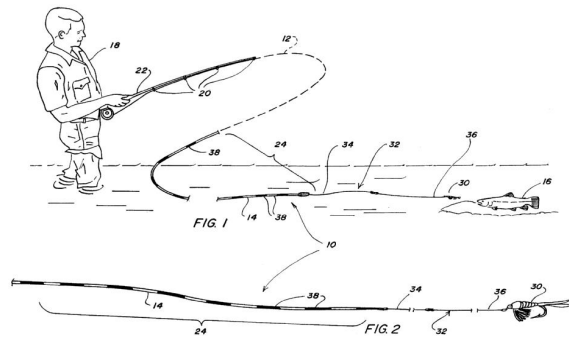
A01K 91/12

Fly lines

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



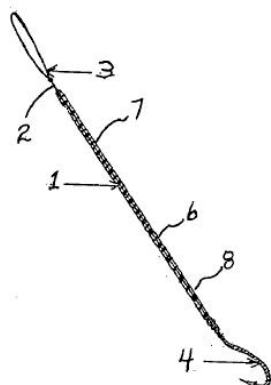
A01K 91/14

Leaders

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



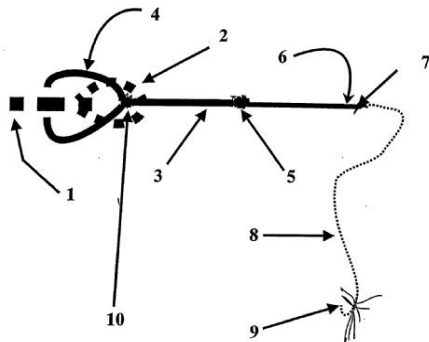
A01K 91/16

for fly fishing

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



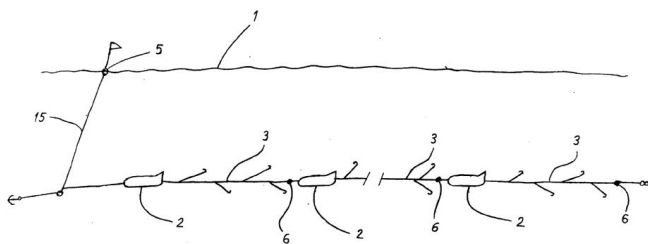
A01K 91/18

Trotlines, longlines; Accessories therefor, e.g. baiting devices, lifters, setting reeler

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



References relevant to classification in this group

This subclass/group does not cover:

Devices for holding bait on hooks	A01K 83/06
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Preparation of bait	A01K 97/04
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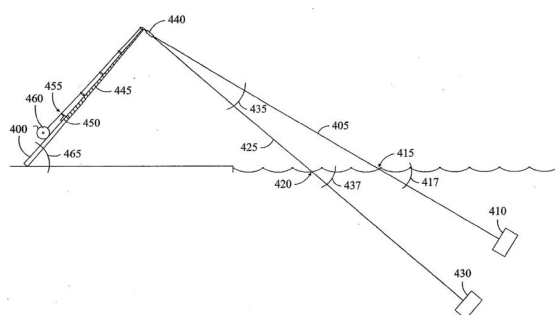
A01K 91/20

Line length or depth measuring devices

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Accessories for angling	A01K 97/00
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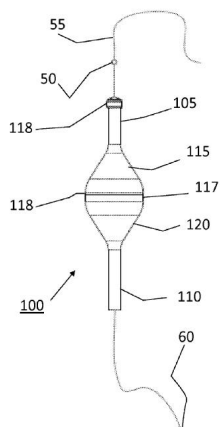
A01K 93/00

Floats for angling

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



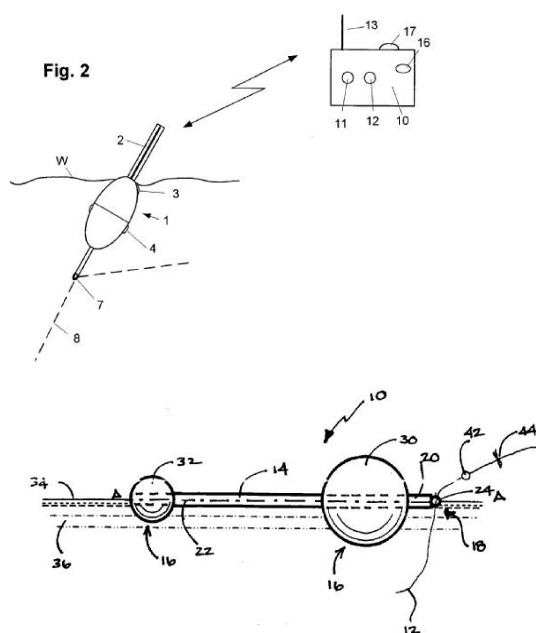
A01K 93/02

with signalling devices

Definition statement

This subclass/group covers:

Float with strike signalling means or location signalling means.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Signalling devices	A01K 97/12 , A01K 97/125
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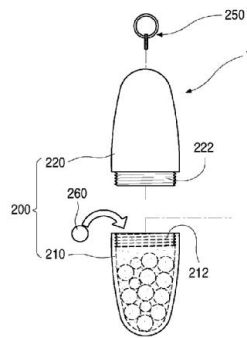
A01K 95/00

Sinkers for angling

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



References relevant to classification in this group

This subclass/group does not cover:

Sinkers for trawl nets	A01K 75/06
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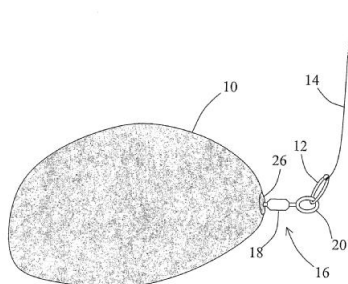
A01K 95/005

[N: Sinkers not containing lead]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



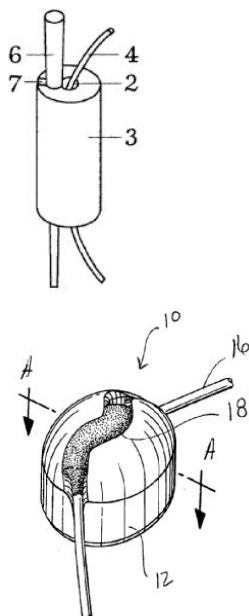
A01K 95/02

Devices for fixing on or removing sinkers from lines

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Connecting devices	A01K 91/03
Connecting devices for connecting lines to hooks or lures	A01K 91/04

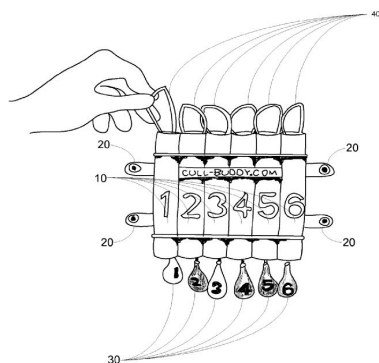
A01K 97/00

Accessories for angling (landing-nets, landing-spoons [A01K 77/00](#))

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



References relevant to classification in this group

This subclass/group does not cover:

Landing-nets, landing-spoons	A01K 77/00
Fish finders	G01S 15/96

Informative references

Attention is drawn to the following places, which may be of interest for search:

Fishing training equipment	A63F 13/00
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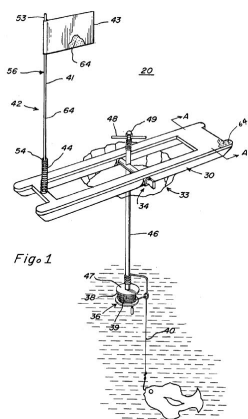
A01K 97/01

for ice-fishing; [N: Ice drilling, hook-setting or signalling devices]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



References relevant to classification in this group

This subclass/group does not cover:

Fishing, hunting huts or the like	E04H 15/001
Special methods or apparatus for drilling	E21B 7/00

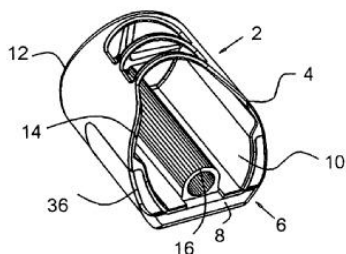
A01K 97/02

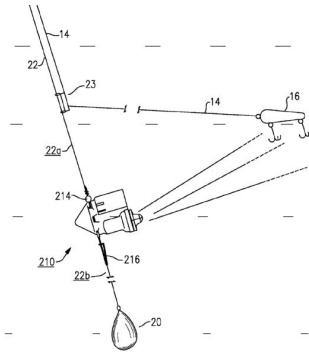
Devices for laying ground-bait, e.g. chum dispensers, [N: e.g. also for throwing ground-bait]

Definition statement

This subclass/group covers:

Attracting fish with ground-bait, light, sound, vibration emitted independently from a fishing lure or the fishing line.





Informative references

Attention is drawn to the following places, which may be of interest for search:

Apparatus on lines	A01K 91/06
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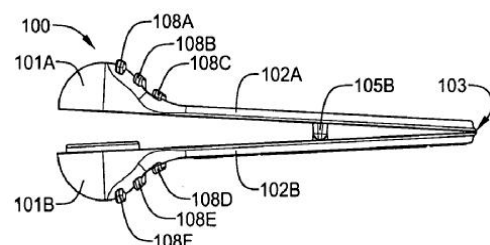
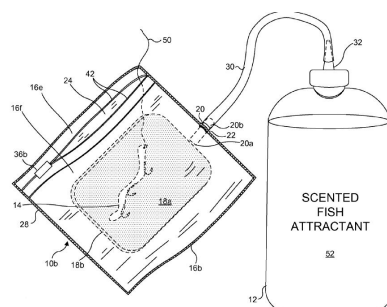
A01K 97/04

Containers for bait; Preparation of bait; [N: Dispensers]
(feeding-stuffs for particular animals [A23K 1/18](#))

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Feeding stuffs for particular animals	A23K 1/18
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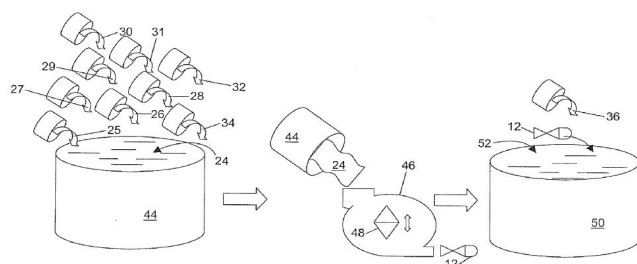
A01K 97/045

[N: Preparation of bait; Ingredients]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



References relevant to classification in this group

This subclass/group does not cover:

Holding bait on hooks	A01K 83/06
Baiting trotlines	A01K 91/18

A01K 97/05

Containers for live bait kept in water, e.g. for minnows, shrimps

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.

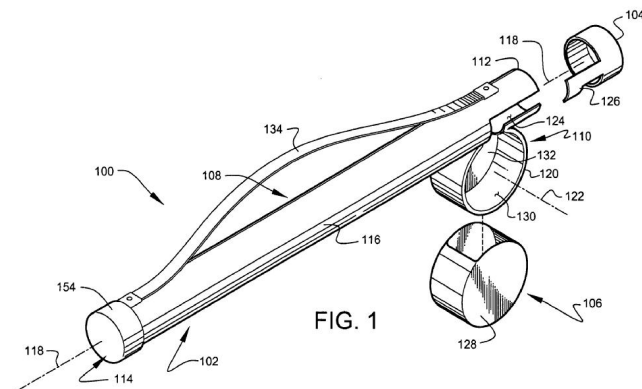
A01K 97/08

Containers for rods

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Devices for storing rifles, guns or elongated objects such as fishing rods	A47B 81/005
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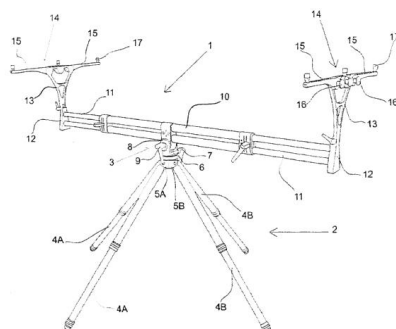
A01K 97/10

Supports for rods

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



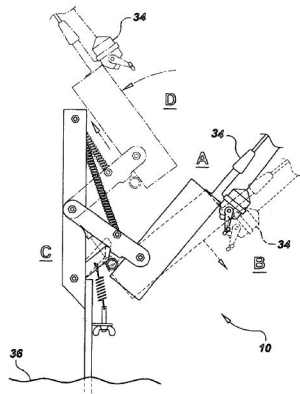
A01K 97/11

with automatic hooking devices

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Apparatus on lines for automatic hook setting	A01K 91/10
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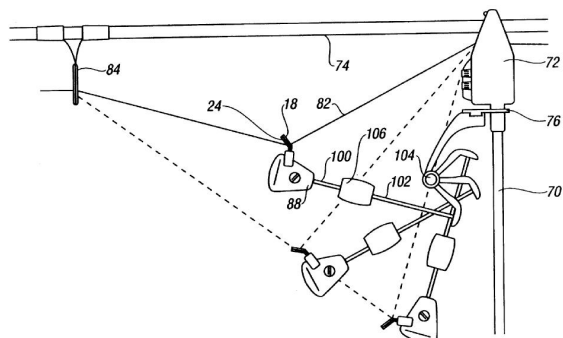
A01K 97/12

Signalling devices, e.g. tip-up devices

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



References relevant to classification in this group

This subclass/group does not cover:

Signalling devices on fishing lines	A01K 91/06
Signalling devices for floats	A01K 93/02
Signalling devices for ice-fishing	A01K 97/01

Informative references

Attention is drawn to the following places, which may be of interest for search:

Signalling devices for supports	A01K 97/10
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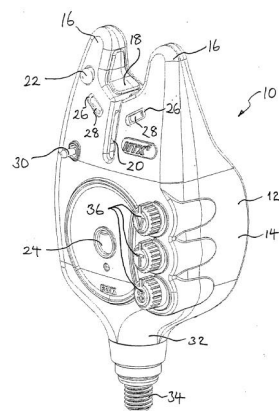
A01K 97/125

[N: using electronic components]

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



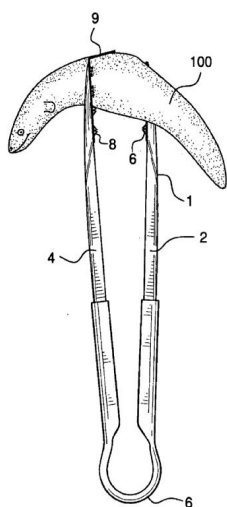
A01K 97/14

Gaffs

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



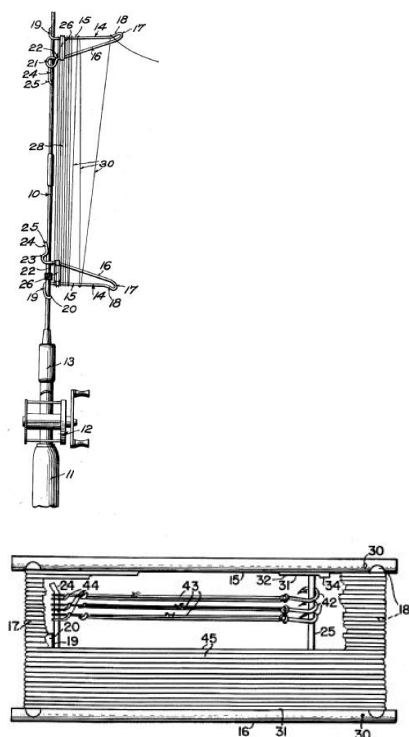
A01K 97/16

Devices for drying fishing lines

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Containers or holders for lines	A01K 91/06
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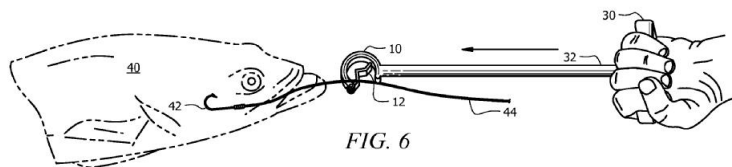
A01K 97/18

for removing fish-hooks from the fish

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



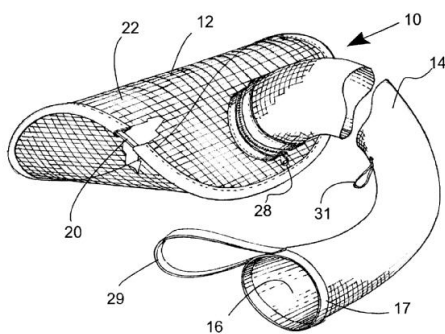
A01K 97/20

Keepnets or other containers for keeping captured fish ([A01K 97/05](#) takes precedence)

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



References relevant to classification in this group

This subclass/group does not cover:

Containers for live bait kept in water	A01K 97/05
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Fish-stringers	A01K 65/00
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Informative references

Attention is drawn to the following places, which may be of interest for search:

Receptacles specially adapted for transporting live fish	A01K 63/02
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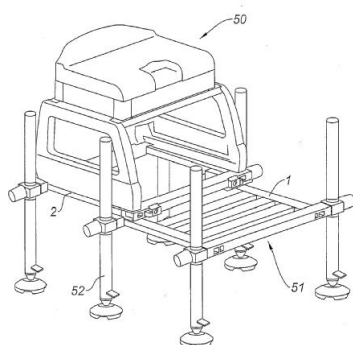
A01K 97/22

Platforms or seat-boxes specially adapted for angling, e.g. tackle boxes for use as seats

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Hand carts for fishing articles	B62B 2202/402
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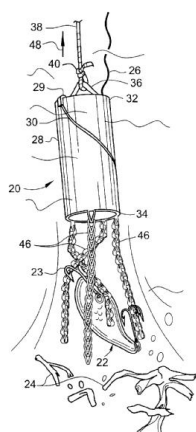
A01K 97/24

Arrangements for disengaging fish-hooks from obstacles

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



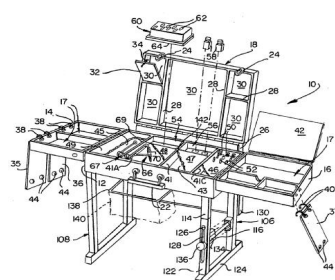
A01K 97/26

Fly tying devices

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Knot tying devices	A01K 91/04
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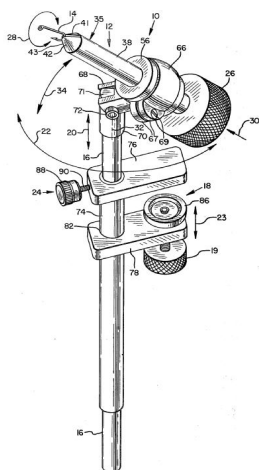
A01K 97/28

Vices specially adapted therefor

Definition statement

This subclass/group covers:

Illustrative example of subject matter classified in this group.



Informative references

Attention is drawn to the following places, which may be of interest for search:

Knot tying devices	A01K 91/04
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A01K 99/00

**Methods or apparatus for fishing not provided for in groups
[A01K 69/00](#) to [A01K 97/00](#)**